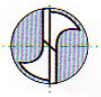
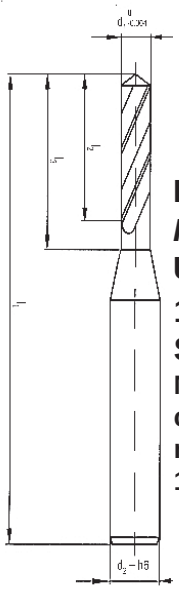
4361VS03..

Schaft/tige/shank: **3.0 mm**
Ø 0.10 - 1.50 mm





Einheitspreis:
Prix unitaire:
Unit price:
11.20 CHF/ Stck/pce./pce.
Minimalmenge cde.minimale/ minimum order: 10Stück/pce./pce.

Hartmetallbohrer m. verstärkt.Zylinderschaft 3mm

- Schaft abgesetzt- mehr Zähigkeit,
- Schaftdurchmesser: **3.0 mm** Länge: 38 mm, Spitzen< 130 °
- SUBMICRON Hartmetall < 0.4 µ
- 4-Flächenanschliff geeignet für folgende Materialien: INOX, Stahl u. Stahllegierungen, Titan, Aluminium, Kupfer

Mèches en MD monobl. à queue renforcée 3mm

- *Queue renforcée p.meilleure tenacité*
- *diam.de la queue: **3.0 mm** longueur: 38 mm ,angle de pointe 130 °*
- *MD : ULTRA SUBMICRON < 0.4 Micron*
- *affûtage 4 faces, matériaux: Aciers, aciers inoxydables, acier et alliages aciers, titane, aluminium, cuivre*

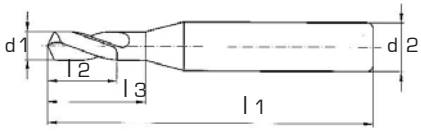
Carbide twist drills with reinforced shank 3mm

- Shank stepped-higher toughness
- Shank-diam.: **3.0 mm** Total length: 38 mm, Head< 130 °
- Carbide grade SUBMICRON < 0.4 µ
- Grinding type „4-planes“ materials: Stainless steels (INOX), steel and steel alloys, titanium, alluminium, copper

d1 + 0 -0.004	l2	l1	d2 h6	d1 + 0 -0.004	l2	l1	d2 h6	d1 + 0 -0.004	l2	l1	d2 h6	d1 + 0 -0.004	l2	l1	d2 h6	d1 + 0 -0.004	l2	l1	d2 h6 4.361VS03113
0.10	0.5	38	3.0	**0.48**	2.7	38	3.0	**0.87**	5.7	38	3.0	**1.25**	8.2	38	3.0	**1.63**	9.2	38	3.0
0.11	0.5	38	3.0	**0.49**	3.2	38	3.0	**0.88**	5.7	38	3.0	**1.26**	8.2	38	3.0	**1.64**	9.2	38	3.0
0.12	0.5	38	3.0	**0.50**	3.2	38	3.0	**0.89**	5.7	38	3.0	**1.27**	8.2	38	3.0	**1.65**	9.2	38	3.0
0.13	0.8	38	3.0	**0.51**	3.2	38	3.0	**0.90**	5.7	38	3.0	**1.28**	8.2	38	3.0	**1.66**	9.2	38	3.0
0.14	0.8	38	3.0	**0.52**	3.2	38	3.0	**0.91**	5.7	38	3.0	**1.29**	8.2	38	3.0	**1.67**	9.2	38	3.0
0.15	0.8	38	3.0	**0.53**	3.2	38	3.0	**0.92**	5.7	38	3.0	**1.30**	8.2	38	3.0	**1.68**	9.2	38	3.0
0.16	0.8	38	3.0	**0.54**	3.6	38	3.0	**0.93**	5.7	38	3.0	**1.31**	9.2	38	3.0	**1.69**	9.2	38	3.0
0.17	1.1	38	3.0	**0.55**	3.6	38	3.0	**0.94**	5.7	38	3.0	**1.32**	9.2	38	3.0	**1.70**	9.2	38	3.0
0.18	1.1	38	3.0	**0.56**	3.6	38	3.0	**0.95**	5.7	38	3.0	**1.33**	9.2	38	3.0	**1.71**	9.2	38	3.0
0.19	1.1	38	3.0	**0.57**	3.6	38	3.0	**0.96**	6.5	38	3.0	**1.34**	9.2	38	3.0	**1.72**	9.2	38	3.0
0.20	1.5	38	3.0	**0.58**	3.6	38	3.0	**0.97**	6.5	38	3.0	**1.35**	9.2	38	3.0	**1.73**	9.2	38	3.0
0.21	1.5	38	3.0	**0.59**	3.6	38	3.0	**0.98**	6.5	38	3.0	**1.36**	9.2	38	3.0	**1.74**	9.2	38	3.0
0.22	1.5	38	3.0	**0.60**	3.6	38	3.0	**0.99**	6.5	38	3.0	**1.37**	9.2	38	3.0	**1.75**	9.2	38	3.0
0.23	1.5	38	3.0	**0.61**	3.9	38	3.0	**1.00**	6.5	38	3.0	**1.38**	9.2	38	3.0	**1.76**	9.2	38	3.0
0.24	1.5	38	3.0	**0.62**	3.9	38	3.0	**1.01**	6.5	38	3.0	**1.39**	9.2	38	3.0	**1.77**	9.2	38	3.0
0.25	1.9	38	3.0	**0.63**	3.9	38	3.0	**1.02**	6.5	38	3.0	**1.40**	9.2	38	3.0	**1.78**	9.2	38	3.0
0.26	1.9	38	3.0	**0.64**	3.9	38	3.0	**1.03**	6.5	38	3.0	**1.41**	9.2	38	3.0	**1.79**	9.2	38	3.0
0.27	1.9	38	3.0	**0.65**	3.9	38	3.0	**1.04**	6.5	38	3.0	**1.42**	9.2	38	3.0	**1.80**	9.2	38	3.0
0.28	1.9	38	3.0	**0.66**	3.9	38	3.0	**1.05**	6.5	38	3.0	**1.43**	9.2	38	3.0	**1.81**	9.2	38	3.0
0.29	1.9	38	3.0	**0.67**	3.9	38	3.0	**1.06**	7.3	38	3.0	**1.44**	9.2	38	3.0	**1.82**	9.2	38	3.0
0.30	1.8	38	3.0	**0.68**	4.5	38	3.0	**1.07**	7.3	38	3.0	**1.45**	9.2	38	3.0	**1.83**	9.2	38	3.0
0.31	1.8	38	3.0	**0.69**	4.5	38	3.0	**1.08**	7.3	38	3.0	**1.46**	9.2	38	3.0	**1.84**	9.2	38	3.0
0.32	1.8	38	3.0	**0.70**	4.5	38	3.0	**1.09**	7.3	38	3.0	**1.47**	9.2	38	3.0	**1.85**	9.2	38	3.0
0.33	1.8	38	3.0	**0.71**	4.5	38	3.0	**1.10**	7.3	38	3.0	**1.48**	9.2	38	3.0	**1.86**	9.2	38	3.0
0.34	1.8	38	3.0	**0.72**	4.5	38	3.0	**1.11**	7.3	38	3.0	**1.49**	9.2	38	3.0	**1.87**	9.2	38	3.0
0.35	2.2	38	3.0	**0.73**	4.5	38	3.0	**1.12**	7.3	38	3.0	**1.50**	9.2	38	3.0	**1.88**	9.2	38	3.0
0.36	2.2	38	3.0	**0.74**	4.5	38	3.0	**1.13**	7.3	38	3.0	**1.51**	9.2	38	3.0	**1.89**	9.2	38	3.0
0.37	2.2	38	3.0	**0.75**	4.5	38	3.0	**1.14**	7.3	38	3.0	**1.52**	9.2	38	3.0	**1.90**	9.2	38	3.0
0.38	2.2	38	3.0	**0.76**	5.0	38	3.0	**1.15**	7.3	38	3.0	**1.53**	9.2	38	3.0	**1.91**	9.2	38	3.0
0.39	2.7	38	3.0	**0.77**	5.0	38	3.0	**1.16**	8.2	38	3.0	**1.54**	9.2	38	3.0	**1.92**	9.2	38	3.0
0.40	2.7	38	3.0	**0.78**	5.0	38	3.0	**1.17**	8.2	38	3.0	**1.55**	9.2	38	3.0	**1.93**	9.2	38	3.0
0.41	2.7	38	3.0	**0.79**	5.0	38	3.0	**1.18**	8.2	38	3.0	**1.56**	9.2	38	3.0	**1.94**	9.2	38	3.0
0.42	2.7	38	3.0	**0.80**	5.0	38	3.0	**1.19**	8.2	38	3.0	**1.57**	9.2	38	3.0	**1.95**	9.2	38	3.0
0.43	2.7	38	3.0	**0.81**	5.0	38	3.0	**1.20**	8.2	38	3.0	**1.58**	9.2	38	3.0	**1.96**	9.2	38	3.0
0.44	2.7	38	3.0	**0.82**	5.0	38	3.0	**1.21**	8.2	38	3.0	**1.59**	9.2	38	3.0	**1.97**	9.2	38	3.0
0.45	2.7	38	3.0	**0.83**	5.0	38	3.0	**1.22**	8.2	38	3.0	**1.60**	9.2	38	3.0	**1.98**	9.2	38	3.0
0.46	2.7	38	3.0	**0.84**	5.0	38	3.0	**1.23**	8.2	38	3.0	**1.61**	9.2	38	3.0	**1.99**	9.2	38	3.0
0.47	2.7	38	3.0	**0.85**	5.0	38	3.0	**1.24**	8.2	38	3.0	**1.62**	9.2	38	3.0	**2.00**	9.2	38	3.0
				0.86	5.7	38	3.0												

4354NV130..

Schaft/tige/shank: 1.50 mm
Ø 0.10 - 1.00 / 0.01mm
Ø 1.05 - 1.50 / 0.05mm



HM Kleinst NC-Anbohrer

130° Spitzenwinkel, d1+0.005 mm Für Stahl, INOX, Messing, ALU-Legierungen

Micro-foret à pointer CN

Angle de la pointe: 130 °, d1 + 0.005 mm pour acier, INOX, laiton, alliages ALU

NC carbide micro drill

130° Head angle, d1+0.005 mm For: Stainless steels (INOX), steel, brass & alluminium alloys

d1 + 0 +0.005	l2	l3	l1	d2 h6	Art.Nr. no.cat. 4354NV130.. CHF	d1 + 0 +0.005	l2	l3	l1	d2 h6	Art.Nr. no.cat. 4354NV130.. CHF	d1 + 0 +0.005	l2	l3	l1	d2 h6	Art.Nr. no.cat. 4354NV130.. CHF	d1 + 0 +0.005	l2	l3	l1	d2 h6	Art.Nr. no.cat. 4354NV130.. CHF
0.05	0.35	0.55	30	1.5	**21.00**	**0.32**	0.90	1.20	30	1.5	**7.90**	**0.58**	1.00	1.80	30	1.5	**7.90**	**0.84**	1.5	2.5	30	1.5	**7.90**
0.06	0.35	0.55	30	1.5	**21.00**	**0.33**	0.90	1.20	30	1.5	**7.90**	**0.59**	1.00	1.80	30	1.5	**7.90**	**0.85**	1.5	2.5	30	1.5	**7.90**
0.07	0.35	0.55	30	1.5	**21.00**	**0.34**	0.90	1.20	30	1.5	**7.90**	**0.60**	1.2	2.0	30	1.5	**7.90**	**0.86**	1.5	2.5	30	1.5	**7.90**
0.08	0.35	0.55	30	1.5	**21.00**	**0.35**	0.90	1.20	30	1.5	**7.90**	**0.61**	1.2	2.0	30	1.5	**7.90**	**0.87**	1.5	2.5	30	1.5	**7.90**
0.09	0.35	0.55	30	1.5	**21.00**	**0.36**	0.90	1.20	30	1.5	**7.90**	**0.62**	1.2	2.0	30	1.5	**7.90**	**0.88**	1.5	2.5	30	1.5	**7.90**
0.10	0.35	0.55	30	1.5	**11.80**	**0.37**	0.90	1.20	30	1.5	**7.90**	**0.63**	1.2	2.0	30	1.5	**7.90**	**0.89**	1.5	2.5	30	1.5	**7.90**
0.11	0.35	0.55	30	1.5	**11.80**	**0.38**	0.90	1.20	30	1.5	**7.90**	**0.64**	1.2	2.0	30	1.5	**7.90**	**0.90**	1.6	2.6	30	1.5	**7.90**
0.12	0.35	0.55	30	1.5	**11.80**	**0.39**	0.90	1.20	30	1.5	**7.90**	**0.65**	1.2	2.0	30	1.5	**7.90**	**0.91**	1.6	2.6	30	1.5	**7.90**
0.13	0.40	0.60	30	1.5	**11.80**	**0.40**	0.90	1.60	30	1.5	**7.90**	**0.66**	1.2	2.0	30	1.5	**7.90**	**0.92**	1.6	2.6	30	1.5	**7.90**
0.14	0.40	0.60	30	1.5	**11.80**	**0.41**	0.90	1.60	30	1.5	**7.90**	**0.67**	1.2	2.0	30	1.5	**7.90**	**0.93**	1.6	2.6	30	1.5	**7.90**
0.15	0.40	0.60	30	1.5	**11.80**	**0.42**	0.90	1.60	30	1.5	**7.90**	**0.68**	1.2	2.0	30	1.5	**7.90**	**0.94**	1.6	2.6	30	1.5	**7.90**
0.16	0.40	0.60	30	1.5	**11.80**	**0.43**	0.90	1.60	30	1.5	**7.90**	**0.69**	1.2	2.0	30	1.5	**7.90**	**0.95**	1.6	2.6	30	1.5	**7.90**
0.17	0.40	0.60	30	1.5	**11.80**	**0.44**	0.90	1.60	30	1.5	**7.90**	**0.70**	1.5	2.5	30	1.5	**7.90**	**0.96**	1.6	2.6	30	1.5	**7.90**
0.18	0.40	0.60	30	1.5	**11.80**	**0.45**	0.90	1.60	30	1.5	**7.90**	**0.71**	1.5	2.5	30	1.5	**7.90**	**0.97**	1.6	2.6	30	1.5	**7.90**
0.19	0.40	0.60	30	1.5	**11.80**	**0.46**	0.90	1.60	30	1.5	**7.90**	**0.72**	1.5	2.5	30	1.5	**7.90**	**0.98**	1.6	2.6	30	1.5	**7.90**
0.20	0.60	0.90	30	1.5	**7.90**	**0.47**	0.90	1.60	30	1.5	**7.90**	**0.73**	1.5	2.5	30	1.5	**7.90**	**0.99**	1.6	2.6	30	1.5	**7.90**
0.21	0.60	0.90	30	1.5	**7.90**	**0.48**	0.90	1.60	30	1.5	**7.90**	**0.74**	1.5	2.5	30	1.5	**7.90**	**1.00**	2.0	3.2	25	1.5	**7.90**
0.22	0.60	0.90	30	1.5	**7.90**	**0.49**	0.90	1.60	30	1.5	**7.90**	**0.75**	1.5	2.5	30	1.5	**7.90**	**1.05**	2.0	3.2	25	1.5	**7.90**
0.23	0.60	0.90	30	1.5	**7.90**	**0.50**	1.00	1.80	30	1.5	**7.90**	**0.76**	1.5	2.5	30	1.5	**7.90**	**1.10**	2.3	3.5	25	1.5	**7.90**
0.24	0.60	0.90	30	1.5	**7.90**	**0.51**	1.00	1.80	30	1.5	**7.90**	**0.77**	1.5	2.5	30	1.5	**7.90**	**1.15**	2.3	3.5	25	1.5	**7.90**
0.25	0.60	0.90	30	1.5	**7.90**	**0.52**	1.00	1.80	30	1.5	**7.90**	**0.78**	1.5	2.5	30	1.5	**7.90**	**1.20**	2.3	3.5	25	1.5	**7.90**
0.26	0.60	0.90	30	1.5	**7.90**	**0.53**	1.00	1.80	30	1.5	**7.90**	**0.79**	1.5	2.5	30	1.5	**7.90**	**1.25**	2.3	3.5	25	1.5	**7.90**
0.27	0.60	0.90	30	1.5	**7.90**	**0.54**	1.00	1.80	30	1.5	**7.90**	**0.80**	1.5	2.5	30	1.5	**7.90**	**1.30**	2.7	4.2	25	1.5	**7.90**
0.28	0.60	0.90	30	1.5	**7.90**	**0.55**	1.00	1.80	30	1.5	**7.90**	**0.81**	1.5	2.5	30	1.5	**7.90**	**1.35**	2.7	4.2	25	1.5	**7.90**
0.29	0.60	0.90	30	1.5	**7.90**	**0.56**	1.00	1.80	30	1.5	**7.90**	**0.82**	1.5	2.5	30	1.5	**7.90**	**1.40**	2.7	4.2	25	1.5	**7.90**
0.30	0.90	1.20	30	1.5	**7.90**	**0.57**	1.00	1.80	30	1.5	**7.90**	**0.83**	1.5	2.5	30	1.5	**7.90**	**1.45**	2.7	4.2	25	1.5	**7.90**
0.31	0.90	1.20	30	1.5	**7.90**						4.354NV130214							**1.50**	3.0	4.2	25	1.5	**7.90**

Karrosseriebohrer ein-/doppelseitig

- Rechtsschneidend mit Zylinderschaft nach Werknorm
- HSS-Co, Spitzenwinkel 118°, Spiralwinkel 35°
- Hauptanwendung: Für geringe Bohrtiefen vorwiegend für Blechbearbeitung (Karrosseriebau)

Forets carosserie une-/double taille

- *Coupe à droite, queue cylindrique selon norme usine*
- *angle de la pointe 118°, hélice 35°*
- *application principale: pour le percage de tôles minces (Carrosserie)*

Twist drills for sheet metal work one-/double sided

- *right hand , cylindrical shank factory standard*
- *head angle 118°, helix 35°*
- *main application: for drilling into thin sheet metals(car bodies)*

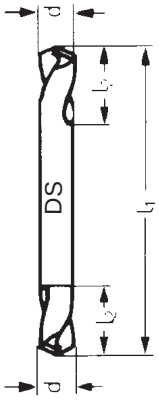
4354DS/ES..

Mengenrabatt 10 % ab 100 Stück/Durchm.
Volume discount 10 % from 100 pcs./ diam.

Remise de quantité 10 % dès 100 pcs./diam.

4.354ES115			Best.Nr./order no.	
d[mm]	l2	CHF	*no.cde.*	CHF
3.25	10	49	4354ES. 0325	**1.80**
3.30	10	49	4354ES. 0330	**1.80**
4.10	13	55	4354ES. 0410	**2.30**
4.90	13	62	4354ES. 0490	**3.00**

4.354DS115			Best.Nr./order no.	
d[mm]	l2	l1	*no.cde.*	CHF
2.50	10	43	4354DS. 0250	**4.90**
3.20	10	49	4354DS. 0320	**4.40**
3.30	10	49	4354DS. 0330	**4.40**
4.10	13	55	4354DS. 0410	**4.90**
4.20	13	55	4354DS. 0420	**4.90**
4.50	13	58	4354DS. 0450	**4.90**
4.90	13	62	4354DS. 0490	**9.10**
5.00	13	62	4354DS. 0500	**6.10**
5.70	19	66	4354DS. 0570	**8.30**
6.50	19	70	4354DS. 0650	**9.00**



Schweisspunktbohrer

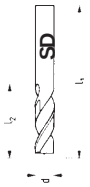
- Rechtsschneidend mit Zylinderschaft, Spannfläche bei 4.354SDW, nach Werksnorm
- HSS, Spitzenwinkel 180°, Spiralwinkel 35°
- Hauptanwendung: Entfernen der Schweiss-punke vorwiegend für Blechbearbeitung (Karrosseriebau)

Forets soudage par points

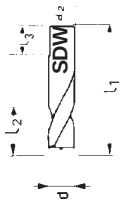
- *Coupe à droite, queue cylindrique 4.354SDW avec mèplat, selon norme usine*
- *angle de la pointe 180°, hélice 35°*
- *application principale: pour éliminer les points de soudage (carrosserie)*

Twist drills for welding points 4354SD/SDW..

- right hand with cylindrical shank, flats on 4.354SDW, according factory standard
- from HSS, head angle 180°, helix angle 35°
- main application: Elimination of the welding poits preferably in the field of sheet metal working (car bodies)



4.354SDW115					Best.Nr./order no.	
d[mm]	l2	l1	l3	d2	*no.cde.*	CHF
6.00	25	63			**4354SD. 0600**	**12.90**
8.00	34	76			**4354SD. 0800**	**19.30**
8.00	15	40	10	7.5	4354SDW. **0800**	**26.30**



Kurzer Spiralbohrer mit abgesetzt.Schaft ∅ 9.8/12.7 mm

- Rechtsschneidend mit Zylinderschaft
- ∅ 9.8/12.7mm, HSS, nach Werksnorm
- Spitzenwinkel 118° (d≥20), 130° (d<20mm), Spiralwinkel 30° Hauptanwendung: Stahl und Gusseisen

Mêches courtes à queue ∅ 9.8/12.7mm

- *coupe à droite, queue cylindrique ∅ 9.8/12.7mm selon norme usine,*
- *angle de la pointe 118° (d ≥20), 130° (d< 20mm) hélice 30°*
- *application principale: pour aciers et fontes*

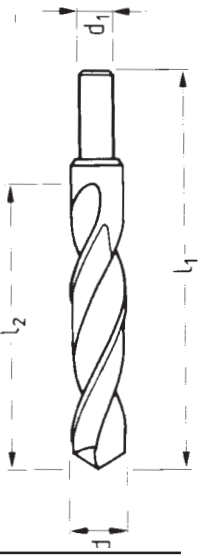
Short twist drills with stepped shank ∅ 9.8/12.7mm

- right hand with cylindrical shank 9.8/12.7mm, HSS, factory standard
- head angle 118° (d≥20), 130° (d<20mm), helix angle 30°
- main application: steel and cast iron

4350EK..

4.350EK115				Bst.Nr./order no.	
d[mm]	l2	l1	d1	no.cde.	CHF
10.50	59.00	108	9.8	**4350EK.1050**	**29.90**
11.00	65.00	116	9.8	**4350EK.1100**	**30.70**
11.50	65.00	116	9.8	**4350EK.1150**	**34.00**
12.00	71.00	125	9.8	**4350EK.1200**	**34.70**
12.50	71.00	125	9.8	**4350EK.1250**	**32.70**
13.00	71.00	125	9.8	**4350EK.1300**	**37.20**
13.50	84.00	139	9.8	**4350EK.1350**	**39.00**
14.00	84.00	139	9.8	**4350EK.1400**	**37.30**
14.50	88.00	145	9.8	**4350EK.1450**	**47.20**
15.00	88.00	145	9.8	**4350EK.1500**	**42.70**
15.50	93.00	150	9.8	**4350EK.1550**	**44.30**
16.00	93.00	150	9.8	**4350EK.1600**	**45.90**
16.50	93.00	150	12.7	**4350EK.1650**	**46.20**

				Bst.Nr./0rder no.	
d[mm]	l2	l1	d1	no.cde.	CHF
17.00	93	150	12.7	4350EK.1700	**47.60**
17.50	93	150	12.7	4350EK.1750	**51.40**
18.00	93	150	12.7	4350EK.1800	**56.70**
18.50	93	150	12.7	4350EK.1850	**61.20**
19.00	93	150	12.7	4350EK.1900	**55.80**
19.50	93	150	12.7	4350EK.1950	**77.20**
20.00	93	150	12.7	4350EK.2000	**75.40**
21.00	76	152	12.7	4350EK.2100	**60.70**
22.00	76	152	12.7	4350EK.2200	**68.90**
23.00	76	152	12.7	4350EK.2300	**81.30**
24.00	76	152	12.7	4350EK.2400	**83.70**
25.00	76	152	12.7	4350EK.2500	**88.60**



4351INOX.. DIN 338, VA

INOX Spiralbohrer
- Rechtsschneidend & Zylinderschaft
- HSS-Co, Typ VA, nach Norm DIN 338 / ISO 235
- Spitzenwinkel 130°, Drallwinkel 35° Hauptanwendung: Schwer zerspanbare Werkstoffe wie nichtrostende und hitzebeständige Stähle

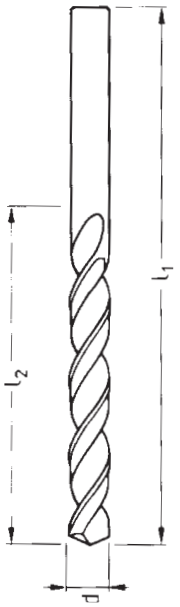
Mengenrabatt 10 %
ab 10 Stück/Durchm. bis 9.5mm und ab 5 Stück ab 9.6mm

Forets INOX
- *Coupe à droite à queue cylindr.*
- *HSS-Co, type VA, selon Norm DIN 338 / ISO 235*
- *Angle de la pointe 130°, hélice 35°*
- *Application principale: alliages difficile à machiner comme acier inox. et de hautes températures*

Remise de quantité 10 %
dès 10 pcs./diam. jusqu'à 9.5mm et dès 5 pcs. dès 9.6mm

Twist drills for stainless steels
- Right hand & cylindrical shank
- HSS-Co, type VA, according standard DIN 338 / ISO 235
- Head angle 130°, helix angle 35°
- Main application: difficult materials to machine e.g. stainless steels & high temperature steels

Volume discount 10 %
from 10 pcs./diam. til 9.5mm & from 5 pcs. from 9.6mm upwards



4.351INOX217 d[mm]	l2	l1	Best.Nr. no.cde. order no.	Katalog catalogue catalogue CHF	Aktion action promotion CHF	d[mm]	l2	l1	Best.Nr. no.cde. order no.	Katalog catalogue catalogue CHF	Aktion action promotion CHF	d[mm]	l2	l1	Best.Nr. no.cde. order no.	Katalog catalogue catalogue CHF	Aktion action promotion CHF
1,00	12	34	4351INOX. 0100	9,20	**5,70**	**4,20**	43	75	4351INOX. 0420	7,00	**4,50**	**7,50**	69	109	4351INOX. 0750	14,90	**9,60**
1,10	14	36	4351INOX. 0110	8,20	**5,30**	**4,30**	47	80	4351INOX. 0430	7,40	**4,70**	**7,60**	75	117	4351INOX. 0760	17,80	**11,30**
1,20	16	38	4351INOX. 0120	8,20	**5,30**	**4,40**	47	80	4351INOX. 0440	7,40	**4,70**	**7,70**	75	117	4351INOX. 0770	17,80	**11,30**
1,30	16	38	4351INOX. 0130	8,20	**5,30**	**4,50**	47	80	4351INOX. 0450	7,10	**4,60**	**7,80**	75	117	4351INOX. 0780	17,80	**11,30**
1,40	18	40	4351INOX. 0140	8,20	**5,30**	**4,60**	47	80	4351INOX. 0460	9,60	**6,10**	**7,90**	75	117	4351INOX. 0790	19,60	**12,40**
1,50	18	40	4351INOX. 0150	8,50	**5,40**	**4,70**	47	80	4351INOX. 0470	9,60	**6,10**	**8,00**	75	117	4351INOX. 0800	14,40	**8,90**
1,55	18	40	4351INOX. 0155	5,70	**4,70**	**4,80**	52	86	4351INOX. 0480	8,80	**5,60**	**8,10**	75	117	4351INOX. 0810	19,50	**12,30**
1,60	20	43	4351INOX. 0160	11,90	**7,60**	**4,90**	52	86	4351INOX. 0490	8,80	**5,60**	**8,20**	75	117	4351INOX. 0820	17,80	**11,30**
1,70	20	43	4351INOX. 0170	12,30	**7,90**	**5,00**	52	86	4351INOX. 0500	8,00	**5,00**	**8,30**	75	117	4351INOX. 0830	17,80	**11,30**
1,80	22	46	4351INOX. 0180	7,70	**4,80**	**5,10**	52	86	4351INOX. 0510	8,20	**5,30**	**8,40**	75	117	4351INOX. 0840	16,60	**10,40**
1,90	22	46	4351INOX. 0190	7,70	**4,80**	**5,20**	52	86	4351INOX. 0520	9,60	**6,20**	**8,50**	75	117	4351INOX. 0850	21,20	**13,60**
2,00	24	49	4351INOX. 0200	7,40	**4,70**	**5,30**	52	86	4351INOX. 0530	10,80	**6,80**	**8,60**	81	125	4351INOX. 0860	20,10	**12,70**
2,10	24	49	4351INOX. 0210	7,30	**4,70**	**5,40**	57	93	4351INOX. 0540	10,80	**6,80**	**8,70**	81	125	4351INOX. 0870	20,70	**13,10**
2,20	27	53	4351INOX. 0220	6,90	**4,50**	**5,50**	57	93	4351INOX. 0550	8,60	**5,50**	**8,80**	81	125	4351INOX. 0880	22,40	**14,20**
2,30	27	53	4351INOX. 0230	7,30	**4,70**	**5,60**	57	93	4351INOX. 0560	10,30	**6,60**	**8,90**	81	125	4351INOX. 0890	22,40	**14,20**
2,40	30	57	4351INOX. 0240	8,00	**5,20**	**5,70**	57	93	4351INOX. 0570	11,70	**7,40**	**9,00**	81	125	4351INOX. 0900	20,60	**12,90**
2,50	30	57	4351INOX. 0250	6,90	**4,50**	**5,80**	57	93	4351INOX. 0580	11,70	**7,40**	**9,10**	81	125	4351INOX. 0910	27,00	**17,00**
2,60	30	57	4351INOX. 0260	8,10	**5,20**	**5,90**	57	93	4351INOX. 0590	11,70	**7,40**	**9,20**	81	125	4351INOX. 0920	27,00	**17,00**
2,70	33	61	4351INOX. 0270	7,60	**4,70**	**6,00**	57	93	4351INOX. 0600	8,90	**5,70**	**9,30**	81	125	4351INOX. 0930	27,40	**17,30**
2,80	33	61	4351INOX. 0280	7,70	**4,80**	**6,10**	63	101	4351INOX. 0610	12,30	**7,70**	**9,40**	81	125	4351INOX. 0940	27,40	**17,30**
2,90	33	61	4351INOX. 0290	7,70	**4,80**	**6,20**	63	101	4351INOX. 0620	12,30	**7,70**	**9,50**	81	125	4351INOX. 0950	24,20	**15,20**
3,00	33	61	4351INOX. 0300	5,40	**3,70**	**6,30**	63	101	4351INOX. 0630	13,80	**8,70**	**9,60**	87	133	4351INOX. 0960	27,50	**17,30**
3,10	36	65	4351INOX. 0310	7,30	**4,60**	**6,40**	63	101	4351INOX. 0640	13,80	**8,70**	**9,70**	87	133	4351INOX. 0970	27,50	**17,30**
3,20	36	65	4351INOX. 0320	7,30	**4,60**	**6,50**	63	101	4351INOX. 0650	8,90	**5,70**	**9,80**	87	133	4351INOX. 0980	26,90	**17,00**
3,30	36	65	4351INOX. 0330	6,90	**4,40**	**6,60**	63	101	4351INOX. 0660	17,00	**10,90**	**9,90**	87	133	4351INOX. 0990	29,80	**18,80**
3,40	39	70	4351INOX. 0340	8,90	**5,70**	**6,70**	63	101	4351INOX. 0670	14,90	**9,60**	**10,00**	87	133	4351INOX. 1000	23,20	**14,60**
3,50	39	70	4351INOX. 0350	8,50	**5,40**	**6,80**	69	109	4351INOX. 0680	12,70	**8,00**	**10,20**	87	133	4351INOX. 1020	26,90	**17,00**
3,60	39	70	4351INOX. 0360	8,70	**5,50**	**6,90**	69	109	4351INOX. 0690	12,70	**8,00**	**10,50**	87	133	4351INOX. 1050	29,90	**18,90**
3,70	39	70	4351INOX. 0370	7,10	**4,60**	**7,00**	69	109	4351INOX. 0700	11,90	**7,60**	**11,00**	94	142	4351INOX. 1100	30,10	**19,00**
3,80	43	75	4351INOX. 0380	9,20	**5,70**	**7,10**	69	109	4351INOX. 0710	15,90	**10,20**	**11,50**	94	142	4351INOX. 1150	33,20	**21,10**
3,90	43	75	4351INOX. 0390	8,10	**5,20**	**7,20**	69	109	4351INOX. 0720	15,90	**10,20**	**12,00**	101	151	4351INOX. 1200	38,20	**24,20**
4,00	43	75	4351INOX. 0400	6,70	**4,30**	**7,30**	69	109	4351INOX. 0730	15,90	**10,20**	**12,50**	101	151	4351INOX. 1250	41,20	**25,90**
4,10	43	75	4351INOX. 0410	7,00	**4,50**	**7,40**	69	109	4351INOX. 0740	15,90	**10,20**	**13,00**	101	151	4351INOX. 1300	42,20	**26,80**

4351.. DIN 338, W

ALU-Spiralbohrer
- Rechtsschneid. & Zylinderschaft
- HSS-Co, Typ W, nach Norm DIN 338 / ISO 235
- Spitzenwinkel 130°, Drallwinkel 35°
- Hauptanwendung: langspanende, weiche Werkstoffe, z.B. Al-, AlSi-, Kupfer-, Zink-Legierungen, Kunststoffe weich etc.

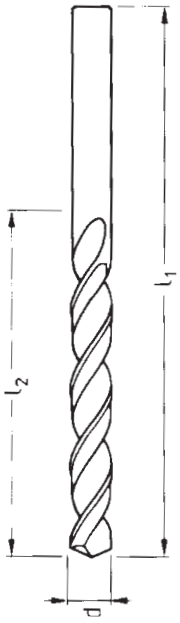
Mengenrabatt 10 %
ab 10 Stück/Durchm. bis 9.5mm und ab 5 Stück ab 9.6mm

Forets ALU
- *Coupe à droite & queue cylindr.*
- *HSS-Co, type W, selon Norm DIN 338 / ISO 235*
- *Angle de la pointe 130°, hélice 35°*
- *Application principale: métaux légers, alliages d'aluminium, cuivre et plastique doux*

Remise de quantité 10 %
dès 10 pcs./diam. jusqu'à 9.5mm et dès 5 pcs. dès 9.6mm

Twist drills f. alluminium
- right hand & cylindrical shank
- HSS-Co, type W, according standard DIN 338 / ISO 235
- Head angle 130°, helix angle 35°
- Main application: long chip producing soft materials, e.g. Al-, AlSi-, copper-, zinq-alloys, soft plastic materials etc.

Volume discount 10 %
from 10 pcs./diam. til 9.5mm & from 5 pcs. from 9.6mm upwards



4.351217 d[mm]	l2	l1	Best.Nr. no.cde. order no.	Katalog catalogue catalogue CHF	Aktion action pormot. CHF	d[mm]	l2	l1	Best.Nr. no.cde. order no.	Katalog catalogue catalogue CHF	Aktion action pormot. CHF	d[mm]	l2	l1	Best.Nr. no.cde. order no.	Katalog catalogue catalogue CHF	Aktion action pormot. CHF	d[mm]	l2	l1	Best.Nr. no.cde. order no.	Katalog catalogue catalogue CHF	Aktion action pormot. CHF
1,00	12	34	4351. 0100	17,10	**10,90**	3,40	39	70	4351. 0340	8,20	**5,30**	5,70	57	93	4351. 0570	10,50	**6,80**	8,10	75	117	4351. 0810	17,80	**11,30**
1,10	14	36	4351. 0110	16,40	**10,30**	3,50	39	70	4351. 0350	7,70	**4,80**	5,80	57	93	4351. 0580	10,50	**6,80**	8,20	75	117	4351. 0820	16,20	**10,20**
1,20	16	38	4351. 0120	16,40	**10,30**	3,60	39	70	4351. 0360	8,00	**5,00**	5,90	57	93	4351. 0590	10,50	**6,80**	8,30	75	117	4351. 0830	16,20	**10,20**
1,30	16	38	4351. 0130	15,50	**9,80**	3,70	39	70	4351. 0370	8,00	**5,00**	6,00	57	93	4351. 0600	8,20	**5,30**	8,40	75	117	4351. 0840	15,00	**9,60**
1,40	18	40	4351. 0140	15,80	**10,10**	3,80	43	75	4351. 0380	8,40	**5,30**	6,10	63	101	4351. 0610	11,30	**7,10**	8,50	75	117	4351. 0850	19,20	**12,20**
1,50	18	40	4351. 0150	16,40	**10,30**	3,90	43	75	4351. 0390	7,30	**4,70**	6,20	63	101	4351. 0620	11,20	**7,00**	8,60	81	125	4351. 0860	18,40	**11,60**
1,60	20	43	4351. 0160	14,40	**8,90**	4,00	43	75	4351. 0400	6,10	**3,90**	6,30	63	101	4351. 0630	12,50	**8,00**	8,70	81	125	4351. 0870	18,70	**11,90**
1,70	20	43	4351. 0170	14,70	**9,50**	4,10	43	75	4351. 0410	6,50	**4,10**	6,40	63	101	4351. 0640	12,50	**8,00**	8,80	81	125	4351. 0880	20,10	**12,80**
1,80	22	46	4351. 0180	14,60	**9,50**	4,20	43	75	4351. 0420	6,50	**4,10**	6,50	63	101	4351. 0650	9,20	**5,70**	8,90	81	125	4351. 0890	20,10	**12,80**
1,90	22	46	4351. 0190	14,60	**9,50**	4,30	43	75	4351. 0430	6,50	**4,10**	6,60	63	101	4351. 0660	15,50	**9,80**	9,00	81	125	4351. 0900	19,60	**12,40**
2,00	24	49	4351. 0200	11,90	**7,60**	4,40	47	80	4351. 0440	6,80	**4,40**	6,70	63	101	4351. 0670	13,60	**8,50**	9,10	81	125	4351. 0910	24,50	**15,50**
2,10	24	49	4351. 0210	13,90	**8,70**	4,50	47	80	4351. 0450	6,80	**4,40**	6,80	69	109	4351. 0680	11,60	**7,30**	9,20	81	125	4351. 0920	24,50	**15,50**
2,20	27	53	4351. 0220	14,00	**8,80**	4,60	47	80	4351. 0460	6,60	**4,10**	6,90	69	109	4351. 0690	11,60	**7,30**	9,30	81	125	4351. 0930	24,90	**15,80**
2,30	27	53	4351. 0230	13,70	**8,60**	4,70	47	80	4351. 0470	8,50	**5,40**	7,00	69	109	4351. 0700	10,90	**6,90**	9,40	81	125	4351. 0940	24,90	**15,80**
2,40	30	57	4351. 0240	14,40	**8,90**	4,80	52	86	4351. 0480	8,50	**5,40**	7,10	69	109	4351. 0710	14,50	**9,20**	9,50	81	125	4351. 0950	21,80	**13,80**
2,50	30	57	4351. 0250	6,40	**4,10**	4,90	52	86	4351. 0490	8,10	**5,20**	7,20	69	109	4351. 0720	14,50	**9,20**	9,60	87	133	4351. 0960	25,10	**15,80**
2,60	30	57	4351. 0260	6,70	**4,30**	5,00	52	86	4351. 0500	8,50	**5,40**	7,30	69	109	4351. 0730	14,50	**9,20**	9,70	87	133	4351. 0970	25,10	**15,80**
2,70	33	61	4351. 0270	6,80	**4,40**	5,10	52	86	4351. 0510	7,10	**4,60**	7,40	69	109	4351. 0740	14,50	**9,20**	9,80	87	133	4351. 0980	24,30	**15,50**
2,80	33	61	4351. 0280	7,00	**4,50**	5,20	52	86	4351. 0520	7,60	**4,70**	7,50	69	109	4351. 0750	13,60	**8,50**	9,90	87	133	4351. 0990	26,90	**17,00**
2,90	33	61	4351. 0290	7,00	**4,50**	5,30	52	86	4351. 0530	7,60	**4,70**	7,60	75	117	4351. 0760	16,20	**10,20**	10,00	87	133	4351. 1000	24,30	**15,50**
3,00	33	61	4351. 0300	5,00	**3,10**	5,40	57	93	4351. 0540	9,80	**6,20**	7,70	75	117	4351. 0770	16,20	**10,20**	10,20	87	133	4351. 1010	24,30	**15,50**
3,10	36	65	4351. 0310	6,70	**4,30**	5,50	57	93	4351. 0550	9,60	**6,10**	7,80	75	117	4351. 0780	16,20	**10,20**	11,00	94	142	4351. 1100	27,20	**17,20**
3,20	36	65	4351. 0320	6,70	**4,30**	5,60	57	93	4351. 0560	7,90	**5,00**	7,90	75	117	4351. 0790	17,80	**11,30**	12,00	101	151	4351. 1200	34,30	**21,80**
3,30	36	65	4351. 0330	8,20	**5,30**					9,20	**5,70**	8,00	75	117	4351. 0800	13,70	**8,60**	13,00	101	151	4351. 1300	38,90	**24,60**

435020.. DIN 338 UFL

NEW NOUVEAU

Kurze Spiralbohrer, UFL

- HSS-Co, Typ UFL **mit grossen Spannuten,** rechtsscheidend mit Zylinderschaft
- Blanke Ausführung, Norm DIN 338
- Spitzenwinkel 130°, Drallwinkel 35°
- Hauptanwendung: Stahl u. langspanende Werkstoffe wie **Kupfer und rostfreie Stähle bis ca. 1000N/mm2**, bei grösseren Bohrtiefen auch für kurzspanende Werkstoffe

Forets série courte, UFL

- *HSS-Co, type UFL, **grandes rainures de copeaux, cpe.** à droite, queue cylindrique.*
- *exécution blanche, Norm DIN 338,*
- *Angle de la pointe 130°, hélice 35°*
- *Application principale: acier et matériaux de copeaux long comme **cuivre et acier INOX**, jusqu'à 1000N/mm2, pour les grandes profondeurs: aussi pour matériaux de copeaux courts*

Short twist drills, UFL

- HSS-Co, type UFL, **with big helix groowes for the chips,** RH cutting with straight shank
- blanc exéc. according DIN 338
- drill point angle 130°, hélix angle 35°
- main application: steel and long chip
- materials like copper ans stainlss steels til aprox.1000N/mm2, with biger drilldepth suitable also for short chip materials

Mengenrabatt: 10% ab 10 Stück/ Durchm. bis 9.5mm und ab 5 Stück ab 9.6mm

Remise de quantité: *10% dès 10 pcs./diam. jusqu'à 9.5mm et dès 5 pcs. dès 9.6mm*

Volume discount: 10% from 10 pcs./diam. til 9.5mm and from 5 pcs. from 9.6mm onwards

d [mm]	l2	l1	CHF	Art.Nr./no.cde. order no.	d [mm]	l2	l1	CHF	Art.Nr./no.cde. order no.	d [mm]	l2	l1	CHF	Art.Nr./no.cde. order no.
1.5	18	40	8.40	435020.0150	4.8	52	80	7.60	435020.0480	8	75	117	16.50	435020.0800
1.6	20	43	7.60	435020.0160	4.9	52	80	7.70	435020.0490	8.1	75	117	21.70	435020.0810
1.7	20	43	7.20	435020.0170	5	52	86	7.20	435020.0500	8.2	75	117	22.20	435020.0820
1.8	22	46	7.60	435020.0180	5.1	52	86	8.10	435020.0510	8.3	75	117	21.80	435020.0830
1.9	22	46	7.70	435020.0190	5.2	52	86	8.40	435020.0520	8.4	75	117	22.20	435020.0840
2	24	49	4.50	435020.0200	5.3	52	86	8.40	435020.0530	8.5	75	117	16.90	435020.0850
2.1	24	49	4.90	435020.0210	5.4	57	93	10.30	435020.0540	8.6	81	125	24.80	435020.0860
2.2	27	53	4.90	435020.0220	5.5	57	93	9.80	435020.0550	8.7	81	125	24.80	435020.0870
2.3	27	53	4.60	435020.0230	5.6	57	93	10.40	435020.0560	8.8	81	125	25.60	435020.0880
2.4	30	57	4.80	435020.0240	5.7	57	93	10.40	435020.0570	8.9	81	125	24.80	435020.0890
2.5	30	57	4.50	435020.0250	5.8	57	93	10.40	435020.0580	9	81	125	20.90	435020.0900
2.6	30	57	4.80	435020.0260	5.9	57	93	10.40	435020.0590	9.1	81	125	28.80	435020.0910
2.7	33	61	5.00	435020.0270	6	57	93	10.20	435020.0600	9.2	81	125	28.80	435020.0920
2.8	33	61	5.00	435020.0280	6.1	63	101	11.60	435020.0610	9.3	81	125	28.20	435020.0930
2.9	33	61	5.00	435020.0290	6.2	63	101	11.60	435020.0620	9.4	81	125	28.90	435020.0940
3	33	61	4.80	435020.0300	6.3	63	101	12.90	435020.0630	9.5	81	125	21.80	435020.0950
3.1	36	65	5.50	435020.0310	6.4	63	101	12.90	435020.0640	9.6	87	133	29.70	435020.0960
3.2	36	65	5.60	435020.0320	6.5	63	101	11.20	435020.0650	9.7	87	133	29.70	435020.0970
3.3	36	65	5.70	435020.0330	6.6	63	101	12.80	435020.0660	9.8	87	133	31.90	435020.0980
3.4	39	70	5.90	435020.0340	6.7	63	101	12.80	435020.0670	9.9	87	133	33.20	435020.0990
3.5	39	70	5.60	435020.0350	6.8	69	109	13.10	435020.0680	10	87	133	23.90	435020.1000
3.6	39	70	5.90	435020.0360	6.9	69	109	13.70	435020.0690	10.2	87	133	33.50	435020.1020
3.7	39	70	6.10	435020.0370	7	69	109	12.70	435020.0700	10.5	87	133	29.90	435020.1050
3.8	43	75	6.10	435020.0380	7.1	69	109	17.90	435020.0710	10.8	94	142	48.60	435020.1080
3.9	43	75	6.40	435020.0390	7.2	69	109	17.90	435020.0720	11	94	142	37.40	435020.1100
4	43	75	6.00	435020.0400	7.3	69	109	17.90	435020.0730	11.2	94	142	62.20	435020.1120
4.1	43	75	6.40	435020.0410	7.4	69	109	17.90	435020.0740	11.5	94	142	47.80	435020.1150
4.2	43	75	6.50	435020.0420	7.5	69	109	13.90	435020.0750	11.8	94	142	62.20	435020.1180
4.3	47	80	7.20	435020.0430	7.6	75	117	19.50	435020.0760	12	101	151	46.00	435020.1200
4.4	47	80	7.00	435020.0440	7.7	75	117	19.50	435020.0770	12.2	101	151	91.70	435020.1220
4.5	47	80	7.10	435020.0450	7.8	75	117	19.70	435020.0780	12.5	101	151	62.50	435020.1250
4.6	47	80	7.20	435020.0460	7.9	75	117	20.00	435020.0790	12.8	101	151	96.20	435020.1280
4.7	47	80	7.40	435020.0470						13	101	151	62.50	435020.1300

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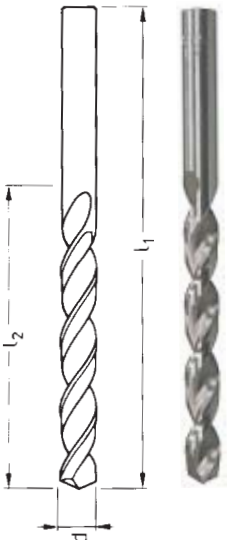

435025.. DIN 338 UFL TIN

Kurze Spiralbohrer, UFL mit TIN-Beschichtung

Forets série courte, UFL à revêtement TIN

Short twist drills, UFL with TIN-coating

Mengenrabatt: 10% ab 3 Stück/ Durchmesser

Remise de quantité: *10% dès 3 pcs./diam.*

Volume discount: 10% from 3 pcs./diameter

d [mm]	l2	l1	CHF	Art.Nr./no.cde. order no.	d [mm]	l2	l1	CHF	Art.Nr./no.cde. order no.	d [mm]	l2	l1	CHF	Art.Nr./no.cde. order no.
2	24	49	9.00	435025.0200	5.1	52	86	17.30	435025.0510	8.2	75	117	36.90	435025.0820
2.1	24	49	10.00	435025.0210	5.2	52	86	16.70	435025.0520	8.3	75	117	38.60	435025.0830
2.2	27	53	10.50	435025.0220	5.3	52	86	17.90	435025.0530	8.4	75	117	38.80	435025.0840
2.3	27	53	9.80	435025.0230	5.4	57	93	19.30	435025.0540	8.5	75	117	32.20	435025.0850
2.4	30	57	10.30	435025.0240	5.5	57	93	19.20	435025.0550	8.6	81	125	43.10	435025.0860
2.5	30	57	9.70	435025.0250	5.6	57	93	19.50	435025.0560	8.7	81	125	39.50	435025.0870
2.6	30	57	10.30	435025.0260	5.7	57	93	18.60	435025.0570	8.8	81	125	42.40	435025.0880
2.7	33	61	10.20	435025.0270	5.8	57	93	20.00	435025.0580	8.9	81	125	39.50	435025.0890
2.8	33	61	10.40	435025.0280	5.9	57	93	19.40	435025.0590	9	81	125	32.40	435025.0900
2.9	33	61	10.30	435025.0290	6	57	93	19.30	435025.0600	9.1	81	125	48.60	435025.0910
3	33	61	10.40	435025.0300	6.1	63	101	21.80	435025.0610	9.2	81	125	48.60	435025.0920
3.1	36	65	10.50	435025.0310	6.2	63	101	22.10	435025.0620	9.3	81	125	48.60	435025.0930
3.2	36	65	10.50	435025.0320	6.3	63	101	23.60	435025.0630	9.4	81	125	48.60	435025.0940
3.3	36	65	12.10	435025.0330	6.4	63	101	23.80	435025.0640	9.5	81	125	36.00	435025.0950
3.4	39	70	12.50	435025.0340	6.5	63	101	21.40	435025.0650	9.6	87	133	48.40	435025.0960
3.5	39	70	11.90	435025.0350	6.6	63	101	23.60	435025.0660	9.7	87	133	48.40	435025.0970
3.6	39	70	12.70	435025.0360	6.7	63	101	22.60	435025.0670	9.8	87	133	48.40	435025.0980
3.7	39	70	12.70	435025.0370	6.8	69	109	23.50	435025.0680	9.9	87	133	53.50	435025.0990
3.8	43	75	12.60	435025.0380	6.9	69	109	25.10	435025.0690	10	87	133	35.10	435025.1000
3.9	43	75	12.40	435025.0390	7	69	109	22.50	435025.0700	10.2	87	133	53.30	435025.1020
4	43	75	12.80	435025.0400	7.1	69	109	29.90	435025.0710	10.5	87	133	44.80	435025.1050
4.1	43	75	13.90	435025.0410	7.2	69	109	30.80	435025.0720	10.8	94	142	72.30	435025.1080
4.2	43	75	14.10	435025.0420	7.3	69	109	28.40	435025.0730	11	94	142	53.40	435025.1100
4.3	47	80	14.60	435025.0430	7.4	69	109	29.90	435025.0740	11.2	94	142	82.60	435025.1120
4.4	47	80	14.60	435025.0440	7.5	69	109	24.20	435025.0750	11.5	94	142	57.60	435025.1150
4.5	47	80	14.90	435025.0450	7.6	75	117	36.90	435025.0760	11.8	94	142	85.40	435025.1180
4.6	47	80	14.90	435025.0460	7.7	75	117	32.90	435025.0770	12	101	151	70.70	435025.1200
4.7	47	80	14.50	435025.0470	7.8	75	117	32.90	435025.0780	12.2	101	151	100.40	435025.1220
4.8	52	80	7.60	435025.0480	7.9	75	117	32.90	435025.0790	12.5	101	151	91.80	435025.1250
4.9	52	80	7.70	435025.0490	8	75	117	29.30	435025.0800	12.8	101	151	118.00	435025.1280
5	52	86	7.20	435025.0500	8.1	75	117	37.00	435025.0810	13	101	151	92.80	435025.1300

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4356..
DIN 345
HSS

Spiralbohrer WEDEVAG mit Morsekegel

- Typ N, rechtsschneidend, HSS
- Für lang-bis kurzspanende Werkstoffe, z.B.Stahl bis ca.1000 N/mm2, Gusseisen, Temperguss, Sintereisen Elektrolytkupfer, AlSi-Legierungen

Mengenrabatt:
10% ab 5 Stück/ Durchmesser

Mèches WEDEVAG avec cône morse

- *Type N, coupe à droite, HSS*
- *Application principale: pour des alliages avec des copeaux longs à courts, acier jusqu'à 1000 N/mm, fonte, cuivre, alliages AlSi*

Remise de quantité:
10% dès 5 pièces / diamètre

Twist drills WEDEVAG with conical shank Morse

- Type N, right hand cutting, HSS
- For long-to short chip materials, e.g. steel up to 1000 N/mm2, cast iron, annealed cast, sintered iron, electrolytic copper, AlSi-alloys

Volume discount:
10% from 5 pcs./ diameter

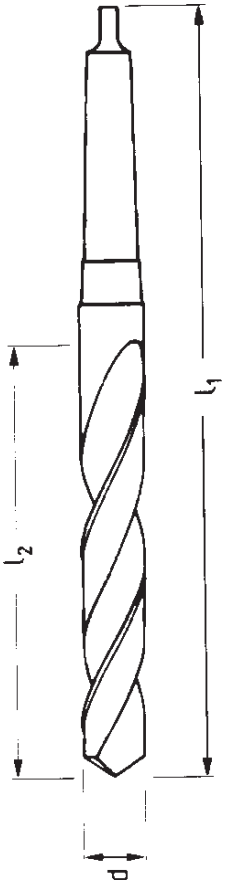
d	l2	l1	MK	CHF
5.00	52	133	1	13.30
5.50	57	138	1	13.70
6.00	57	138	1	13.80
6.50	63	144	1	14.30
7.00	69	150	1	15.00
7.50	69	150	1	15.90
7.75	69	150	1	26.40
8.00	75	156	1	16.70
8.25	75	156	1	21.20
8.50	75	156	1	17.20
8.75	75	156	1	22.30
8.80	81	162	1	22.30
9.00	81	162	1	18.10
9.50	81	162	1	18.60
9.75	81	162	1	29.30
9.80	87	168	1	23.70
10.00	87	168	1	18.40
10.20	87	168	1	21.90
10.25	87	168	1	22.70
10.50	87	168	1	22.70
10.75	87	168	1	24.00
10.80	94	175	1	24.00
11.00	94	175	1	24.00
11.20	94	175	1	24.00
11.25	94	175	1	24.70
11.50	94	175	1	24.70
11.75	94	175	1	25.50
11.80	94	175	1	25.50
12.00	101	182	1	21.80
12.20	101	182	1	26.20
12.25	101	182	1	27.10
12.50	101	182	1	27.10
12.75	101	182	1	28.00
13.00	101	182	1**	23.20
13.20	101	182	1	28.00
13.25	101	182	1	29.90
13.50	108	189	1	29.90
13.75	108	189	1	31.00
13.80	108	189	1	31.00
14.00	108	189	1**	25.90
14.25	114	212	2	35.10
14.50	114	212	2	35.10
14.75	114	212	2	36.20
15.00	114	212	2	30.10
15.25	120	218	2	38.10

d	l2	l1	MK	CHF
15.50	120	218	2	38.10
15.75	120	218	2	39.40
16.00	120	218	2	32.80
16.25	125	233	2	41.50
16.50	125	233	2	41.50
16.75	125	233	2	43.10
17.00	125	233	2	35.90
17.25	130	228	2	45.40
17.50	130	228	2	45.40
17.75	130	228	2	47.00
18.00	130	228	2	39.20
18.25	135	233	2	49.50
18.50	135	233	2	41.30
18.75	135	233	2	51.20
19.00	135	233	2	42.80
19.25	140	238	2	45.30
19.50	140	238	2	45.30
19.75	140	238	2	46.80
20.00	140	238	2	46.80
20.25	145	243	2	56.10
20.50	145	243	2	56.10
20.75	145	243	2	58.50
21.00	145	243	2	49.40
21.25	150	248	2	60.30
21.50	150	248	2	63.20
21.75	150	248	2	63.20
22.00	150	248	2**	52.60
22.25	150	248	2	66.00
22.50	155	253	2**	67.20
22.75	155	253	2	67.20
23.00	155	253	2**	56.10
23.25	155	276	3	78.70
23.50	155	276	3	78.10
23.75	160	281	3	80.00
24.00	160	281	3	80.00
24.25	160	281	3	96.10
24.50	160	281	3	83.60
24.75	160	281	3	83.60
25.00	160	281	3	83.60
25.25	160	281	3	101.60
25.50	165	286	3	88.20
25.75	165	286	3	105.80

d	l2	l1	MK	CHF
26.00	165	286	3	88.20
26.25	165	286	3	110.70
26.50	165	286	3	96.00
26.75	165	286	3	117.00
27.00	170	291	3	97.40
27.25	170	291	3	117.00
27.50	170	291	3	101.40
27.75	170	291	3	121.60
28.00	170	291	3	101.40
28.25	170	291	3	123.60
28.50	175	296	3	107.70
28.75	175	296	3	129.20
29.00	175	296	3	107.70
29.25	175	296	3	132.50
29.50	175	296	3	113.90
29.75	175	296	3	136.70
30.00	175	296	3	113.90
30.25	175	296	3	115.90
30.50	180	301	3	120.40
30.75	180	301	3	144.40
31.00	180	301	3	120.40
31.25	180	301	3	144.40
31.50	180	301	3	124.90
31.75	180	301	3	126.90
32.00	185	334	4	133.30
32.50	185	334	4	138.10
33.00	185	334	4	138.10
33.50	185	334	4	143.10
34.00	190	339	4	145.50
34.50	190	339	4	153.10
35.00	190	339	4	153.10
35.50	190	339	4	190.30
36.00	195	344	4	161.00
36.50	195	344	4	193.30
37.00	195	344	4	170.20
37.50	195	344	4	204.10
38.00	200	349	4	214.40
38.50	200	349	4	221.80
39.00	200	349	4	184.90
39.50	200	349	4	232.20
40.00	200	349	4	193.40
40.50	205	354	4	189.50
41.00	205	354	4	189.50
41.50	205	354	4	196.50

d	l2	l1	MK	CHF 4.350EK115
42.00	205	354	4	198.10
42.50	205	354	4	205.00
43.00	210	359	4	208.80
43.50	210	359	4	216.20
44.00	210	359	4	216.20
44.50	210	359	4	225.50
45.00	210	359	4	231.30
45.50	215	364	4	321.20
46.00	215	364	4	278.60
46.50	215	364	4	334.40
47.00	215	364	4	290.00
47.50	215	364	4	348.10
48.00	220	369	4	306.00
48.50	220	369	4	367.10
49.00	220	369	4	317.70
49.50	220	369	4	381.40
50.00	220	369	4	329.70
51.00	225	412	5	406.40
52.00	225	412	5	446.20
53.00	225	412	5	384.90
54.00	230	417	5	478.00
55.00	230	417	5	500.50
56.00	230	417	5	430.80
57.00	235	422	5	540.90
58.00	235	422	5	557.90
59.00	235	422	5	479.50
60.00	235	422	5	592.90
61.00	240	427	5	618.70
62.00	240	427	5	637.00
63.00	240	427	5	655.60
64.00	245	432	5	682.90
65.00	245	432	5	702.00
66.00	245	432	5	719.50
67.00	245	432	5	736.80
68.00	250	437	5	766.40
69.00	250	437	5	782.50
70.00	250	437	5	798.70
71.00	250	437	5	819.40
72.00	255	442	5	846.90
73.00	255	442	5	864.10
74.00	255	442	5	881.80
75.00	255	442	5	899.40

*** cône renforcé Art. 4356VS*
** verstärkter Schaft Art. 4356VS*



Spiralbohrer mit Morsekegel wie 4356..jedoch in HSS-Co

Mêches à cône morse identi. 4356..mais en HSS-Co(cobalt) like 4356..but in HSS-Co

Twist drill with morse shank like 4356..but in HSS-Co

435610..
DIN 345
HSS-Co

Ø d	l2	l1	MK	CHF
10.00	87	168	1	32.30
10.20	87	168	1	41.00
10.50	87	168	1	39.40
11.00	94	175	1	34.50
11.50	94	175	1	38.00
12.00	101	182	1	33.60
12.50	101	182	1	41.80
13.00	101	182	1	37.80
13.50	108	189	1	46.00
14.00	108	189	1	39.40
14.25	114	212	2	53.50
14.50	114	212	2	49.50

Ø d	l2	l1	MK	CHF
15.00	114	212	2	44.50
15.25	120	218	2	53.50
15.50	120	218	2	55.30
16.00	120	218	2	47.40
16.50	125	233	2	58.30
16.75	125	233	2	60.90
17.00	125	233	2	52.20
17.50	130	228	2	64.30
18.00	130	228	2	58.90
18.50	135	233	2	68.60
19.00	135	233	2	64.30

Ø d	l2	l1	MK	CHF
19.50	140	238	2	68.60
20.00	140	238	2	70.10
20.50	145	243	2	79.60
21.00	145	243	2	81.40
21.50	150	248	2	91.50
22.00	150	248	2	88.90
22.50	155	253	2	98.80
23.00	155	253	2	93.70
23.50	155	276	3	110.70
24.00	160	281	3	112.40
24.50	160	281	3	119.30

Ø d	l2	l1	MK	CHF 4.35610115
25.00	160	281	3	119.80
25.50	165	286	3	131.80
26.00	165	286	3	131.10
26.50	165	286	3	136.10
27.00	170	291	3	141.80
27.50	170	291	3	145.20
28.00	170	291	3	148.30
28.50	175	296	3	158.10
29.00	175	296	3	161.40
29.50	175	296	3	169.60
30.00	175	296	3	163.00