

Überlange Spiralbohrer mit Morsekegel

- rechtsschneid. mit Morsekegel Typ N
- ISO 3291, HSS, Spitzen-∠ 118°, Spiral-∠ 28°
- Hauptanwendung: Stahl u. Gusseis.

Mèches cône morse série extra longue

- Coupe à droite, queue cône Morse, type N, DIN 346,
- HSS, ∠ pointe 118°, ∠ hélice 28°
- application principale: acier et fonte

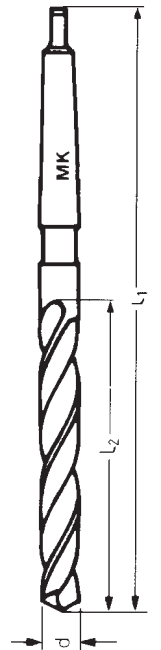
Extra long twist drills with tapered morse shank

- right hand cutting with tapered morse shank type N, ISO 3291, HSS
- head-∠ 118°, helix-∠ 28°
- main application: steel and cast iron

4356EL..
ISO 3291

4356EL115						4356EL115						4356EL115					
d [mm]	I2	I1	MK	Best.Nr./order no. no.cde.	CHF	d [mm]	I2	I1	MK	Best.Nr./order no. no.cde.	CHF	d [mm]	I2	I1	MK	Best.Nr./order no. no.cde.	CHF
8.00	120	200	1	4356EL.0800	50.50	12.00	* 250	400	2	4356EL.1220	140.40	18.00	215	315	2	4356EL.1800	161.60
8.00	* 125	200	1	4356EL.0805	53.90	12.00	300	400	2	4356EL.1225	138.10	18.00	300	400	2	4356EL.1805	185.50
8.00	* 160	250	1	4356EL.0810	59.00	12.50	170	250	1	4356EL.1250	105.10	19.00	215	315	2	4356EL.1905	175.20
8.00	170	250	1	4356EL.0815	56.50	12.50	215	218	2	4356EL.1255	123.80	19.00	* 250	400	2	4356EL.1910	183.30
8.00	235	315	1	4356EL.0820	66.40	12.50	300	400	2	4356EL.1260	138.10	19.00	300	400	2	4356EL.1915	218.90
8.00	170	250	1	4356EL.0850	73.30	13.00	170	250	2	4356EL.1305	103.10	19.00	* 315	500	2	4356EL.1920	151.70
9.00	170	250	1	4356EL.0900	74.70	13.00	* 200	315	2	4356EL.1310	68.00	20.00	215	315	2	4356EL.2000	178.00
9.00	* 200	315	1	4356EL.0910	67.10	13.00	215	315	2	4356EL.1315	121.40	20.00	300	400	2	4356EL.2005	231.10
9.00	235	315	1	4356EL.0915	87.90	13.00	* 250	400	2	4356EL.1320	145.50	21.00	215	315	2	4356EL.2100	194.10
10.00	* 160	250	1	4356EL.1000	59.00	13.00	300	400	2	4356EL.1325	146.60	21.00	315	400	2	4356EL.2110	238.00
10.00	170	250	1	4356EL.1005	93.70	13.50	170	250	2	4356EL.1350	112.10	21.00	* 315	500	2	4356EL.2115	254.20
10.00	235	315	1	4356EL.1010	105.70	13.50	215	315	2	4356EL.1355	132.00	22.00	215	315	2	4356EL.2205	196.50
10.00	320	400	1	4356EL.1015	123.60	13.50	300	400	2	4356EL.1360	146.60	22.00	300	400	2	4356EL.2210	260.10
10.50	170	250	1	4356EL.1020	97.20	14.00	170	250	2	4356EL.1400	108.80	22.00	* 315	500	2	4356EL.2215	265.60
10.50	235	315	1	4356EL.1055	114.50	14.00	215	315	2	4356EL.1405	128.20	23.00	215	315	2	4356EL.2300	214.60
10.50	320	400	1	4356EL.1060	133.30	14.00	300	400	2	4356EL.1410	146.80	23.00	300	400	2	4356EL.2310	262.60
11.00	170	250	1	4356EL.1100	95.60	14.50	215	315	2	4356EL.1450	150.60	23.00	* 315	500	2	4356EL.2315	269.50
11.00	* 200	315	1	4356EL.1105	89.20	14.50	300	400	2	4356EL.1455	146.80	24.00	275	400	3	4356EL.2400	265.50
11.00	235	315	1	4356EL.1110	112.30	15.00	215	315	2	4356EL.1500	134.80	25.00	275	400	3	4356EL.2500	268.10
11.00	* 250	400	1	4356EL.1115	129.10	15.00	300	400	2	4356EL.1505	159.70	26.00	275	400	3	4356EL.2600	283.90
11.00	320	400	1	4356EL.1120	133.30	15.50	215	315	2	4356EL.1550	155.00	27.00	275	400	3	4356EL.2700	296.80
11.50	170	250	1	4356EL.1150	100.80	15.50	300	400	2	4356EL.1555	159.70	27.00	* 375	500	3	4356EL.2705	227.50
11.50	235	315	1	4356EL.1155	118.50	16.00	215	315	2	4356EL.1600	140.70	28.00	* 250	400	3	4356EL.2800	246.70
11.50	* 300	400	1	4356EL.1160	134.00	16.00	300	400	2	4356EL.1605	168.30	28.00	275	400	3	4356EL.2805	309.90
11.50	320	400	1	4356EL.1165	140.90	17.00	* 160	250	2	4356EL.1700	83.50	29.00	* 250	400	3	4356EL.2900	265.60
12.00	170	250	1	4356EL.1200	100.80	17.00	215	315	2	4356EL.1710	150.60	29.00	275	400	3	4356EL.2905	328.20
12.00	* 200	315	2	4356EL.1210	65.90	17.00	* 250	400	2	4356EL.1715	171.80	29.00	* 315	500	3	4356EL.2910	324.90
12.00	215	315	2	4356EL.1215	118.50	17.00	300	400	2	4356EL.1720	177.60	30.00	275	400	3	4356EL.3005	334.80

* solange Vorrat / jusqu'à épuisement du stock/as long stock will last



Zentrierbohrer HSS m. Radius Foret à centrer à rayon

- Verstärkte Ausführung im Vergleich mit 4.375A (60°)
- Radius reduziert Bruchgefahr und erzeugt exakten Sitz
- Plus robuste que le foret à centrer à 60°
- Rayon supprime l'amorce de rupture et assure une portée précise de la contre pointe

Spotting drill with radius

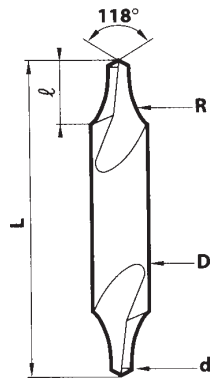
- reinforced execution in comparison with 4375A.. (60°)
- radius reduces danger of crash and generates a precision seat

Rabatte:10 % ab 10 Stück/Durchm. Remise:10% dès 10 pièces/diam.

Discounts:10 % from 10 pcs./diam.

4.375R112						Best.Nr./order no.						Best.Nr./order no.					
D x d	L	R	I	no.cde.	CHF	D x d	L	R	I	no.cde.	CHF	D x d	L	R	I	no.cde.	CHF
3.00 x 0.50	31	2.0	2.3-2.6	4375R.010	13.60	8.00 x 3.00	50	8.0	8.0-8.5	4375R.170	9.40	10.00 x 3.00	55	10.0	8.9-9.4	4375R.190	12.10
3.15* x 0.50	25	2.0	2.3-2.6	4375R.020	6.50	8.00 x 3.15	50	8.0	8.0-8.5	4375R.180	12.30	10.00 x 3.15	55	10.0	8.9-9.4	4375R.200	12.10
3.15* x 0.80	25	2.5	2.6-2.9	4375R.030	9.80	10.00 x 4.00	55	10.0	10.0-10.6	4375R.210	16.30	12.00 x 4.00	63	11.5	10.7-11.3	4375R.220	20.70
3.15 x 1.00	31	2.9	3.0-3.3	4375R.040	9.80	12.00 x 5.00	63	11.5	11.4-12.0	4375R.230	20.70	12.00 x 5.00	63	11.5	11.2-11.8	4375R.240	20.70
3.15 x 1.25	31	3.2	3.3-3.6	4375R.050	9.80	12.50 x 4.00	63	12.5	12.5-13.1	4375R.250	27.30	12.50 x 5.00	63	12.5	12.5-13.1	4375R.250	27.30
3.50 x 0.75	35	3.4	2.8-3.0	4375R.060	7.70	14.00 x 5.00	69	13.4	12.8-13.4	4375R.260	27.00	16.00 x 5.00	71	16.0	14.4-15.0	4375R.270	30.50
4.00 x 1.00	35	3.9	3.3-3.6	4375R.070	7.75	16.00 x 5.00	71	16.0	14.4-15.0	4375R.270	30.50	16.00 x 6.30	71	16.0	16.0-16.6	4.375R.280	25.70
4.00 x 1.25	35	4.0	3.7-4.1	4375R.080	7.00	18.00 x 6.00	77	17.8	16.6-17.2	4375R.290	44.40	20.00 x 6.30	80	20.0	17.8-19.0	4375R.300	60.30
4.00 x 1.60	35	4.0	4.2-4.7	4375R.090	9.80	20.00 x 8.00	80	20.0	20.0-20.7	4375R.310	55.80	25.00 x 10.00	100	25.0	25.0-25.7	4375R.330	96.40
5.00 x 1.50	40	5.0	4.5-4.9	4375R.100	7.70	31.50 x 12.50	125	31.5	31.5-32.5	475R.350	228.40						
5.00 x 1.60	40	5.0	4.5-4.9	4375R.110	7.70												
5.00 x 2.00	40	5.0	5.0-5.4	4.375R.120	10.50												
6.00 x 2.00	45	5.8	5.4-5.8	4375R.130	9.35												
6.30 x 2.00	45	6.3	5.6-6.0	4375R.140	8.60												
6.30 x 2.50	45	6.3	6.3-6.8	4375R.150	8.00												
8.00 x 2.50	50	8.0	7.5-8.0	4375R.160	9.40												

* einseitig/d'un seul côté



Zentrierbohrer HSS mit Radius lange Ausführung

Foret à centrer à rayon série extra longue

Spotting drill HSS with radius long execution

4375R-SL..
DIN 333-R

4.375R-SL112						Best.Nr./order no.						Best.Nr./order no.					
D x d	L	R	I	no.cde.	CHF	D x d	L	R	I	no.cde.	CHF	D x d	L	R	I	no.cde.	CHF
4.00 x 1.00	120	3.9	3.3-3.6	4375R.SL.010	49.10	8.00 x 3.15	120	8.0	7.5-3.6	4375R.SL.040	46.40	10.00 x 3.00	120	10.0	8.9-9.4	4375R-SL.050	64.70
3.15* x 0.50	120	5.0	4.5-4.9	4375R-SL.020	48.20	10.00 x 3.15	120	10.0	10.0-10.6	4375R-SL.060	64.70						
3.15* x 0.80	120	5.8	5.4-5.8	4375R-SL.030	48.20												



4375A.SL.. Zentrierbohrer 60° lange Ausführung
DIN 333

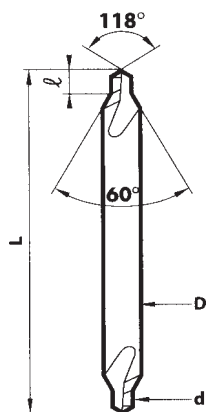
- Lange Ausführung Form A, DIN 333 rechtsschneidend,
- HSS
Toleranzen: D h8, d k12, Winkel 60° -30', 118° ± 2°

Foret à centrer 60° série longue

- *Exécution longue forme A selon DIN 333, coupe à droite, HSS*
- *tol.générales: D h8, d k12, angle 60° -30', 118° ± 2°*

Spotting drill 60° long execution

- long execution form A, DIN 333 right hand cutting, HSS
- tolerances: D h8, d k12, angles 60° -30', 118° ± 2°



d	D	L	l	Best. Nr./order no.		d	D	L	l	Best. Nr./order no.	
mm	mm	mm	mm	no. de cde	CHF	mm	mm	mm	mm	no. de cde	CHF
0.75	3.50	120	1.0-1.2	4375A.SL. 010	43.80	3.00	8.00	120	3.9-4.4	4375A.SL. 130	35.00
0.75	3.50	60	1.0-1.2	4375A.SL. 020	14.20	3.00	8.00	80	3.9-4.4	4375A.SL. 140	18.00
1.00	4.00	120	1.3-1.6	4375A.SL. 030	31.00	3.15	8.00	200	3.9-4.4	4375A.SL. 150	71.70
1.00	4.00	60	1.3-1.6	4375A.SL. 040	14.10	3.00	10.00	100	3.9-4.4	4375A.SL. 160	24.70
1.50	5.00	120	2.0-2.4	4375A.SL. 050	30.50	3.00	10.00	120	3.9-4.4	4375A.SL. 170	40.60
1.50	5.00	60	2.0-2.4	4375A.SL. 060	14.70	4.00	10.00	100	5.0-5.6	4375A.SL. 180	24.70
2.00	5.00	200	2.5-2.9	4375A.SL. 070	77.50	4.00	10.00	120	5.0-5.6	4375A.SL. 190	40.60
2.00	6.00	120	2.5-2.9	4375A.SL. 080	31.90	4.00	10.00	200	5.0-5.6	4375A.SL. 200	78.10
2.00	6.00	80	2.5-2.9	4375A.SL. 090	15.50	4.00	12.00	100	5.0-5.6	4375A.SL. 210	32.00
2.50	6.30	200	3.1-3.6	4375A.SL. 100	76.10	4.00	12.00	120	5.0-5.6	4375A.SL. 220	49.40
2.50	8.00	120	3.1-3.6	4375A.SL. 110	35.00	4.00	12.00	150	5.0-5.6	4375A.SL. 225	58.40
2.50	8.00	80	3.1-3.6	4375A.SL. 120	18.00	5.00	14.00	120	6.3-6.9	4375A.SL. 230	60.90

4375A.SL.. Sätze von 6 Zentrierbohrern-lange Ausführung -60° Winkel-Form A-HSS

Jeux de 6 forets extra longues angle 60°-Forme A-HSS

Sets of 6 spotting drills long execution 60° angle form A-HSS



Zusammensetzung:
je 1 Stück:

Composition:
1 piece de chaque:

Composition:
1 piece each:

- 4x1x60-5x1.5x60
- 6x2x80-8x2.5x80
- 10x3x100-12x4x100

- 4x1x60-5x1.5x60
- 6x2x80-8x2.5x80
- 10x3x100-12x4x100

- 4x1x60-5x1.5x60
- 6x2x80-8x2.5x80
- 10x3x100-12x4x100

Best.Nr. / no.cde. / order no.: 4375A.SL.900

CHF 113.80

4377..
DIN 333B

Zentrierbohrer 60°/120°, HSS Form B mit Schutzsenkung

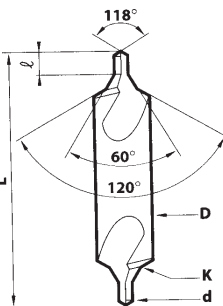
Foret à centrer 60°/120° avec chanfrein de protection Forme B

Spotting drill 60°/120°, HSS form B with protection countersink

- Die Schutzsenkung verstärkt die Wirkung der Zentrierbohrung gegen Schläge und Deformationen
- Die bessere Zentrierung ermöglicht die sichere Positionierung von Teilen zwischen Spitzen auf automatischen Maschinen
Toleranzen: D h8, d k12, L ± 1, K k12, Winkel 60° -30', 120° -4', 118° ± 2°

- *Chanfrein de protection garantit le centre obtenu contre tout risk de choc et de déformation*
- *Evasement facilite la prise entre pointes des pièces sur machine à alimentation automatique*
- *Tolérances: D h8, d k12, L ± 1, K k12, Angles 60° -30', 120° -4', 118° ± 2°*

- the protection countersink reinforces the effect of the centering hole against hits and deformations
- The better centering method enables the safe positioning of pieces between centers on automatics
- Tolerances: D h8, d k12, L ± 1, K k12, Winkel 60° -30', 120° -4', 118° ± 2°



d	D	L	K	l	Best.Nr./order no.		d	D	L	K	l	Best.Nr/orde	
mm	mm	mm		mm	no.cde.	CHF	mm	mm	mm		mm	no.cde.	CHF
0.75	4.00	35	2.0	1.0-1.2	4377. 010	13.60	3.00	14.00	69	7.5	3.9-4.4	4377. 100	37.40
1.50	5.00	40	3.0	2.0-2.4	4377. 015	12.70	4.00	10.00	55	8.0	5.0-5.6	4377. 114	21.30
1.00	6.00	45	2.5	1.3-1.6	4377. 020	14.20	4.00	12.00	63	9.0	5.0-5.6	4377. 118	27.90
2.00	6.00	45	2.5	1.3-1.6	4377. 025	15.30	4.00	16.00	71	10.0	5.0-5.6	4377. 120	47.60
1.25	7.1*	45	3.6	1.6-2.4	4377. 040	12.40	4.00	18.00	77	10.0	5.0-5.6	4377. 130	52.50
1.50	8.00	50	3.8	2.0-2.4	4377. 050	16.50	5.00	12.00	63	9.0	6.3-6.9	4377. 134	27.90
2.00	10.00	55	5.0	2.5-2.9	4377. 070	19.80	5.00	14.00	80	13.2	8.0-8.6	4377. 138	37.40
2.50	8.00	50	5.5	3.1-3.6	4377. 075	17.70	5.00	20.00	80	12.5	6.3-6.9	4377. 140	83.70
3.00	10.00	55	7.0	3.9-4.4	4377. 085	19.80	6.00	18.00	77	12.0	8.0-8.6	4377. 155	52.50
2.50	12.00	63	6.3	3.1-3.6	4377. 090	29.90	6.30	25.00	100	16.0	8.0-8.6	4377. 170	128.10

* solange Vorrat - jusqu'à épuisement du stock/till stock will last

Zentrierbohrer HSS 60°

Auch in **VHM** lieferbar siehe unten

Rabatte:10 % ab 10 Stück/Durchm.

Mèches à centrer HSS 60°

livrables également en mét.dur voir si dessous

Remise:10% dès 10 pièces/diam.

Spotting drills HSS 60°

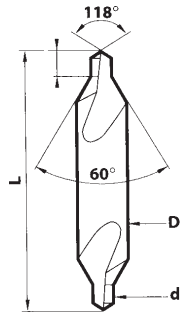
also available in carbide see below.

Discounts:10 % from 10 pcs./diam.

4375A..

DIN 333-A/VSM

DIN 333 - A					VSM				
D	d	L	l	CHF	D	d	L	l	CHF
3.15	x 0.50	25	0.70	7.00	16.00	x 5.00	71	6.60	30.10
3.15	x 0.80	25	1.10	7.00	16.00	x 6.30	71	8.30	26.50
3.15	x 1.00	31	1.40	7.00	20.00	x 6.30	80	8.30	58.40
3.15	x 1.25	31	1.70	7.00	20.00	x 8.00	80	10.40	51.40
4.00	x 1.25	35	1.70	7.55	25.00	x 8.00	100	10.50	96.70
4.00	x 1.60	35	2.20	7.00	25.00	x 10.00	100	13.20	70.90
5.00	x 1.60	40	2.20	7.50	31.50	x 10.00	125	13.20	228.40
4.375A112					3.50	x 0.75	35	1.10	7.50
					4.00	x 1.00	35	1.50	7.35
					5.00	x 1.50	40	2.20	7.30
					6.00	x 2.00	45	2.70	8.30
					8.00	x 2.50	50	3.40	9.30
					10.00	x 3.00	55	4.20	13.10
					12.00	x 4.00	63	5.30	22.35
					14.00	x 5.00	69	6.60	26.90
					18.00	x 6.00	77	8.30	42.20



NC-Anbohrer HSS-CO 90°/120°

Centreur NC HSS-CO 90°/120°

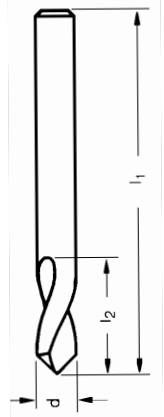
NC-spott.drill HSS-CO 90°/120°

- bei hoher Positioniergenauigkeit der Bohrung und bei langen Bohren mit grosser Kraglänge
- kurzer Bohrer mit tiefer Spannute, gehärteter Schaft, auf h6 Toleranz präzisions geschliffen
- mit 90° Spitzen für Senken und/od. Entgraten in 1 Arbeitsgang
- 120° besonders sichere Zentrierung beim Ansetzen des Bohrers

- haute précision de centrage
- exécution courte avec hélice profonde rectifiée, tige trempée, rectifiée, tolérance h6
- type 90°: centreur ou centrer et chanfreiner en une passe
- type 120°: centrer et amorçage du perçage

- high precision centering
- short execution deep flute grooves, hardened shank precision ground, tolerance h6
- with helical point 90° for centering and chamfering in one operation
- with helical point 120° specially secure centering when applying the drill on the material

4354NC.. WEDEVAG

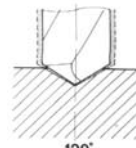
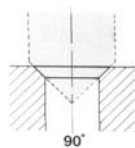


Rabatte:10 % ab 10 Stück/Durchm.

Remise:10% dès 10 pièces/diam.

Discounts:10 % from 10 pcs./diam.

d	l2	l1	CHF	d	l2	l1	CHF	d	l2	l1	CHF	d	l2	l1	CHF
3.0	15	46	8.30	6.0	20	66	12.20	11.0	30	89	19.90	20.0	50	131	54.70
4.0	15	55	9.70	8.0	20	66	13.20	12.0	30	102	23.70	25.0	50	151	82.30
5.0	20	62	12.30	10.0	30	89	15.10	16.0	40	115	28.00	4.354NC90115			



Vollhartmetall NC-Anbohrer rechtsschneidend, 90/120°

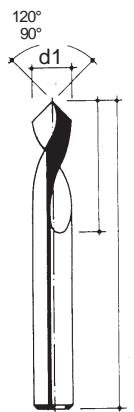
Mèche en metal dur pour mise en perçe NC, 90/120°

Carbide NC spotting drill RH cutting, 90/120°

4354NV90./120.

d1	l1	l2	Best.Nr./no.cde. order no. 90°	CHF	Best.Nr./no.cde. order no. 120°	CHF
2.00	12	46	4354NV90. 0200	13.10		
3.00	15	46	4354NV90. 0300	13.10	4354NV120. 0300	9.60
4.00	15	55	4354NV90. 0400	15.10	4354NV120. 0400	12.50
5.00	15	62	4354NV90. 0500	18.10	4354NV120. 0500	19.50
6.00	21	50	4354NV90. 0600	20.20	4354NV120. 0600	22.20
8.00	25	60	4354NV90. 0800	29.20	4354NV120. 0800	32.10
10.00	27	70	4354NV90. 1000	41.10	4354NV120. 1000	45.30
12.00	27	70	4354NV90. 1200	53.20	4354NV120. 1200	58.90
14.00	30	75	4354NV90. 1400	78.20	4354NV120. 1400	86.20
16.00	30	75	4354NV90. 1600	98.60	4354NV120. 1600	109.30
18.00	33	100	4354NV90. 1800	158.50	4354NV120. 1800	175.70
20.00	30	100	4354NV90. 2000	175.70	4354NV120. 2000	193.90

4.354NV90112



Vollhartmetall-Zentrierbohrer

Forets à centrer en carbure monobloc

Carbide-spotting drills

d1	d2	l1	l2	Best.Nr./no.cde./order no.	CHF
0.80	3.00	38	1.30	4375V. 080	32.30
1.00	3.00	38	1.60	4375V. 100	34.30
1.25	3.00	38	1.90	4375V. 125	37.20
1.60	4.00	38	2.40	4375V. 160	43.10
2.00	5.00	50	2.90	4375V. 200	51.00
2.50	6.00	50	3.60	4375V. 250	58.70
3.15	8.00	60	4.40	4375V. 315	78.30
4.00	10.00	60	5.60	4375V. 400	102.70
5.00	12.00	60	6.00	4375V. 500	142.10
6.30	16.00	71	8.00	4375V. 630	215.30

4.375V112

4375V ..

