



witec®RISTA
REPARATUR UND INSTANDHALTUNG
witec®RISTA
REPAIRING AND MAINTENANCE



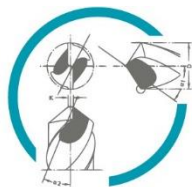
NEU! Step-Point-Drill



Rista

REPARATUR- UND INSTANDHALTUNG
REPAIR AND MAINTENANCE

PRÄZISIONSWERKZEUG TECHNOLOGIE IST UNSER HERZBLUT.



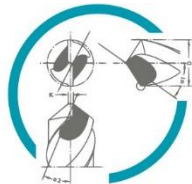
witec[®]
WERKZEUG- UND INDUSTRIE TECHNIK

Risto
Reparatur- und
Instandhaltung

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Qualitätsprüfung:
Diese Werkzeuge unterliegen dem witec[®] Qualitätsprüfungssystem.
Quality inspection:
These tools are subject to witec[®] quality inspection system.



witec[®]
WERKZEUG- UND INDUSTRIE TECHNIK

Rista
Reparatur- und
Instandhaltung

SPIRALBOHRER TWIST DRILLS

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Hinweis:

Weitere Werkzeuge und Artikel sind auf Anfrage kurzfristig lieferbar.

Unter unserem Markennamen **witec® Multi Core** bieten wir auch hochwertige Mehrbereichswerkzeuge für den industriellen Einsatz an – speziell auch für den Einsatz auf CNC-Maschinen.

Note:

Other tools and items are available for immediate delivery upon request.

Under our brand name **witec® witec® Multi Core**, we offer high-quality multi-purpose tools for industrial applications – including those designed for use on CNC machines.

SPIRALBOHRER DIN 1897 SCREW MACHINE DRILLS DIN 1897

DIN 1897

HSS-Co5%
M35

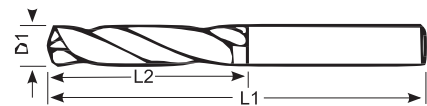
NX

130°

GESCHLIFFEN
GRINDED

- 130° Kreuzanschliff
- goldfinished
- Zylinderschaft
- extra kurze Ausführung
- für Hand- und stationäre Maschinen
- zum Einsatz in der Mischbearbeitung
- 130° splitpoint
- goldfinished
- straight shank
- extra short
- for hand- and stationary machines
- to use in multi purpose working field

INFOBOX



Art.-Nr.: 3-11101

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
1.00	26	6	3-11101
1.50	32	9	3-11101
2.00	38	12	3-11101
2.50	43	14	3-11101
3.00	46	16	3-11101
3.10	49	18	3-11101
3.20	49	18	3-11101
3.30	49	18	3-11101
3.50	52	20	3-11101
4.00	55	22	3-11101
4.10	55	22	3-11101
4.20	55	22	3-11101
4.50	58	24	3-11101
5.00	62	26	3-11101
5.20	66	28	3-11101
5.50	66	28	3-11101
6.00	66	28	3-11101

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
6.50	70	31	3-11101
6.80	74	34	3-11101
7.00	74	34	3-11101
7.50	74	34	3-11101
8.00	79	37	3-11101
8.50	79	37	3-11101
9.00	84	40	3-11101
9.50	84	40	3-11101
10.00	89	43	3-11101
10.20	89	43	3-11101
10.50	89	43	3-11101
11.00	95	47	3-11101
11.50	95	47	3-11101
12.00	102	51	3-11101
12.50	102	51	3-11101
13.00	102	51	3-11101

Einsatzgebiete:

N, W, VA, GG (bis GG40) und hochlegierte Materialien bis 1200 N/mm²

Materials:

N, W, INOX, GG (bis GG40) and high alloyed materials up to 1200 N/mm²

SPIRALBOHRER DIN 338 JOBBER LENGTH MACHINE DRILLS DIN 338

DIN 338

HSS-Co5%
M35

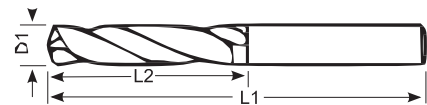
NX

130°

GESCHLIFFEN
GRINDED

- 130° Kreuzanschliff
- goldfinished
- Zylinderschaft
- für Hand- und stationäre Maschinen
- zum Einsatz in der Mischbearbeitung
- 130° splitpoint
- goldfinished
- straight shank
- for hand- and stationary machines
- to use in multi purpose working field

INFOBOX



Art.-Nr.: 3-11102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
1.00	34	12	3-11102
1.10	36	14	3-11102
1.20	38	16	3-11102
1.30	38	16	3-11102
1.40	40	18	3-11102
1.50	40	18	3-11102
1.60	43	20	3-11102
1.70	43	20	3-11102
1.80	46	22	3-11102
1.90	46	22	3-11102
2.00	49	24	3-11102
2.10	49	24	3-11102
2.20	53	27	3-11102
2.30	53	27	3-11102
2.40	57	30	3-11102
2.50	57	30	3-11102
2.60	57	30	3-11102
2.70	61	33	3-11102
2.80	61	33	3-11102
2.90	61	33	3-11102
3.00	61	33	3-11102
3.10	65	36	3-11102
3.20	65	36	3-11102
3.30	65	36	3-11102
3.40	70	39	3-11102
3.50	70	39	3-11102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
3.60	70	39	3-11102
3.70	70	39	3-11102
3.80	75	43	3-11102
3.90	75	43	3-11102
4.00	75	43	3-11102
4.10	75	43	3-11102
4.20	75	43	3-11102
4.30	80	47	3-11102
4.40	80	47	3-11102
4.50	80	47	3-11102
4.60	80	47	3-11102
4.70	80	47	3-11102
4.80	86	52	3-11102
4.90	86	52	3-11102
5.00	86	52	3-11102
5.10	86	52	3-11102
5.20	86	52	3-11102
5.30	86	52	3-11102
5.40	93	57	3-11102
5.50	93	57	3-11102
5.60	93	57	3-11102
5.70	93	57	3-11102
5.80	93	57	3-11102
5.90	93	57	3-11102
6.00	93	57	3-11102
6.10	101	63	3-11102

Einsatzgebiete:

N, W, VA, GG (bis GG40) und hochlegierte Materialien bis 1200 N/mm²

Materials:

N, W, INOX, GG (bis GG40) and high alloyed materials up to 1200 N/mm²

SPIRALBOHRER DIN 338 JOBBER LENGTH MACHINE DRILLS DIN 338

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
6.20	101	63	3-11102
6.30	101	63	3-11102
6.40	101	63	3-11102
6.50	101	63	3-11102
6.60	101	63	3-11102
6.70	101	63	3-11102
6.80	109	69	3-11102
6.90	109	69	3-11102
7.00	109	69	3-11102
7.10	109	69	3-11102
7.20	109	69	3-11102
7.30	109	69	3-11102
7.40	109	69	3-11102
7.50	109	69	3-11102
7.60	117	75	3-11102
7.70	117	75	3-11102
7.80	117	75	3-11102
7.90	117	75	3-11102
8.00	117	75	3-11102
8.10	117	75	3-11102
8.20	117	75	3-11102
8.30	117	75	3-11102
8.40	117	75	3-11102
8.50	117	75	3-11102
8.60	125	81	3-11102
8.70	125	81	3-11102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
8.80	125	81	3-11102
8.90	125	81	3-11102
9.00	125	81	3-11102
9.10	125	81	3-11102
9.20	125	81	3-11102
9.30	125	81	3-11102
9.40	125	81	3-11102
9.50	125	81	3-11102
9.60	125	81	3-11102
9.70	133	87	3-11102
9.80	133	87	3-11102
9.90	133	87	3-11102
10.00	133	87	3-11102
10.20	133	87	3-11102
10.50	133	87	3-11102
11.00	142	94	3-11102
11.50	142	94	3-11102
12.00	151	101	3-11102
12.50	151	101	3-11102
13.00	151	101	3-11102
13.50	160	108	3-11102
14.00	160	108	3-11102
14.50	169	114	3-11102
15.00	169	114	3-11102
15.50	178	120	3-11102
16.00	170	120	3-11102

Sätze / Sets



Ø mm	Art.-Nr.
1-10.0 x 0.5	3-11102
1-13.0 x 0.5	3-11102
1-10.5 x 0.5	3-11102
1-5.9 x 0.1	3-11102
6-10.0 x 0.1	3-11102



Depot

Ø mm	Art.-Nr.
1-10.0 x 0.5	3-11102
1-13.0 x 0.5	3-11102



Einsatzgebiete:

N, W, VA, GG (bis GG40) und hochlegierte Materialien bis 1200 N/mm²

Materials:

N, W, INOX, GG (bis GG40) and high alloyed materials up to 1200 N/mm²

witec® SPIRALBOHRER DIN 340

witec® BUSHING MACHINE DRILLS DIN 340

DIN 340

HSS-Co5%
M35

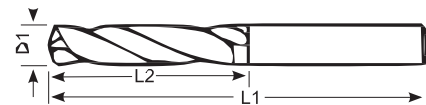
NX

130°

GESCHLIFFEN
GRINDED

- 130° Kreuzanschliff
- blank, lange Ausführung
- Zylinderschaft
- für Hand- und stationäre Maschinen
- zum Einsatz in der Mischbearbeitung
- 130° splitpoint
- bright finished, long series
- straight shank
- for hand- and stationary machines
- to use in multi purpose working field

INFOBOX



Art.-Nr.: 3-11103

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
2.00	85	56	3-11103
2.50	95	62	3-11103
3.00	100	66	3-11103
3.10	106	69	3-11103
3.20	106	69	3-11103
3.30	106	69	3-11103
3.50	112	73	3-11103
3.80	119	78	3-11103
4.00	119	78	3-11103
4.10	119	78	3-11103
4.20	119	78	3-11103
4.50	126	82	3-11103
5.00	132	87	3-11103
5.20	132	87	3-11103
5.50	139	91	3-11103
6.00	139	91	3-11103

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
6.50	148	97	3-11103
6.80	156	102	3-11103
7.00	156	102	3-11103
7.50	156	102	3-11103
8.00	165	109	3-11103
8.50	165	109	3-11103
9.00	175	115	3-11103
9.50	175	115	3-11103
10.00	184	121	3-11103
10.20	184	121	3-11103
10.50	184	121	3-11103
11.00	195	128	3-11103
11.50	195	128	3-11103
12.00	205	134	3-11103
12.50	205	134	3-11103
13.00	205	134	3-11103

Einsatzgebiete:

N, W, VA, GG (bis GG40) und hochlegierte Materialien bis 1200 N/mm²

Materials:

N, W, INOX, GG (bis GG40) and high alloyed materials up to 1200 N/mm²

witec® SPIRALBOHRER DIN338

witec® JOBBER LENGTH MACHINE DRILLS DIN 338

DIN 338

HSS
M2

N

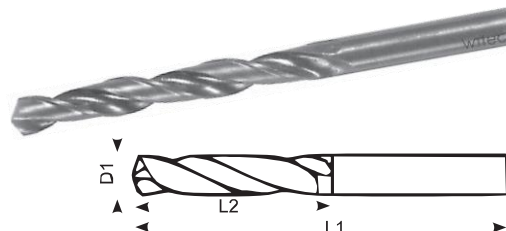
118°

GEWALZT
ROLLED

- Zylinderschaft
- Kegelmantelschliff
- gewalzt

INFOBOX

- straight shank
- relieved cone
- rolled



Art.-Nr.: 3-12102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
0.50	22	6	3-12102
0.60	24	7	3-12102
0.70	28	9	3-12102
0.75	28	9	3-12102
0.80	30	10	3-12102
0.90	32	11	3-12102
1.00	34	12	3-12102
1.10	36	14	3-12102
1.20	38	16	3-12102
1.25	38	16	3-12102
1.30	38	16	3-12102
1.40	40	18	3-12102
1.50	40	18	3-12102
1.60	43	20	3-12102
1.70	43	20	3-12102
1.75	46	22	3-12102
1.80	46	22	3-12102
1.90	46	22	3-12102
2.00	49	24	3-12102
2.10	49	24	3-12102
2.20	53	27	3-12102
2.25	53	27	3-12102
2.30	53	27	3-12102
2.40	57	30	3-12102
2.50	57	30	3-12102
2.60	57	30	3-12102
2.70	61	33	3-12102
2.75	61	33	3-12102
2.80	61	33	3-12102
2.90	61	33	3-12102
3.00	61	33	3-12102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
3.10	65	36	3-12102
3.20	65	36	3-12102
3.25	65	36	3-12102
3.30	65	36	3-12102
3.40	70	39	3-12102
3.50	70	39	3-12102
3.60	70	39	3-12102
3.70	70	39	3-12102
3.75	70	39	3-12102
3.80	75	43	3-12102
3.90	75	43	3-12102
4.00	75	43	3-12102
4.10	75	43	3-12102
4.20	75	43	3-12102
4.25	75	43	3-12102
4.30	80	47	3-12102
4.40	80	47	3-12102
4.50	80	47	3-12102
4.60	80	47	3-12102
4.70	80	47	3-12102
4.75	80	47	3-12102
4.80	86	52	3-12102
4.90	86	52	3-12102
5.00	86	52	3-12102
5.10	86	52	3-12102
5.20	86	52	3-12102
5.25	86	52	3-12102
5.30	86	52	3-12102
5.40	93	57	3-12102
5.50	93	57	3-12102
5.60	93	57	3-12102

Einsatzgebiete:

N und Materialien bis 700 N/mm²

Materials:

N and materials up to 700 N/mm²

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH MACHINE DRILLS DIN 338

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
5.70	93	57	3-12102
5.75	93	57	3-12102
5.80	93	57	3-12102
5.90	93	57	3-12102
6.00	93	57	3-12102
6.10	101	63	3-12102
6.20	101	63	3-12102
6.25	101	63	3-12102
6.30	101	63	3-12102
6.40	101	63	3-12102
6.50	101	63	3-12102
6.60	101	63	3-12102
6.70	101	63	3-12102
6.75	109	69	3-12102
6.80	109	69	3-12102
6.90	109	69	3-12102
7.00	109	69	3-12102
7.10	109	69	3-12102
7.20	109	69	3-12102
7.25	109	69	3-12102
7.30	109	69	3-12102
7.40	109	69	3-12102
7.50	109	69	3-12102
7.60	117	75	3-12102
7.70	117	75	3-12102
7.75	117	75	3-12102
7.80	117	75	3-12102
7.90	117	75	3-12102
8.00	117	75	3-12102
8.10	117	75	3-12102
8.20	117	75	3-12102
8.25	117	75	3-12102
8.30	117	75	3-12102
8.40	117	75	3-12102
8.50	117	75	3-12102
8.60	125	81	3-12102
8.70	125	81	3-12102
8.75	125	81	3-12102
8.80	125	81	3-12102
8.90	125	81	3-12102
9.00	125	81	3-12102
9.10	125	81	3-12102
9.20	125	81	3-12102
9.25	125	81	3-12102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
9.30	125	81	3-12102
9.40	125	81	3-12102
9.50	125	81	3-12102
9.60	133	87	3-12102
9.70	133	87	3-12102
9.75	133	87	3-12102
9.80	133	87	3-12102
9.90	133	87	3-12102
10.00	133	87	3-12102
10.10	133	87	3-12102
10.20	133	87	3-12102
10.25	133	87	3-12102
10.30	133	87	3-12102
10.40	133	87	3-12102
10.50	133	87	3-12102
10.60	142	94	3-12102
10.70	142	94	3-12102
10.75	142	94	3-12102
10.80	142	94	3-12102
10.90	142	94	3-12102
11.00	142	94	3-12102
11.10	142	94	3-12102
11.20	142	94	3-12102
11.25	142	94	3-12102
11.30	142	94	3-12102
11.40	142	94	3-12102
11.50	142	94	3-12102
11.60	142	94	3-12102
11.70	142	94	3-12102
11.75	142	94	3-12102
11.80	142	94	3-12102
11.90	151	101	3-12102
12.00	151	101	3-12102
12.10	151	101	3-12102
12.20	151	101	3-12102
12.25	151	101	3-12102
12.50	151	101	3-12102
12.60	151	101	3-12102
12.70	151	101	3-12102
12.75	151	101	3-12102
12.80	151	101	3-12102
12.90	151	101	3-12102
13.00	151	101	3-12102
13.50	160	108	3-12102

Einsatzgebiete:

N und Materialien bis 700 N/mm²

Materials:

N and materials up to 700 N/mm²

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH MACHINE DRILLS DIN 338

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
14.00	160	108	3-12102
14.50	169	114	3-12102
15.00	169	114	3-12102
15.50	178	120	3-12102
16.00	178	120	3-12102
16.50	184	125	3-12102
17.00	184	125	3-12102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
17.50	191	130	3-12102
18.00	191	130	3-12102
18.50	198	135	3-12102
19.00	198	135	3-12102
19.50	205	140	3-12102
20.00	205	140	3-12102

Sätze / Sets

Ø mm	Art.-Nr.
1-10.0 x 0.5	3-12102
1-13.0 x 0.5	3-12102
1-10.5 x 0.5	3-12102
1-5.9 x 0.1	3-12102
6-10.0 x 0.1	3-12102



Depot

Ø mm	Art.-Nr.
1-10.0 x 0.5	3-12102
1-13.0 x 0.5	3-12102

jeweils/each
1.0-8.0 mm
je 10 Stück/pcs
8.5-13.0 mm
je 5 Stück/pcs



Einsatzgebiete:

N und Materialien bis 700 N/mm²

Materials:

N and materials up to 700 N/mm²

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH MACHINE DRILLS DIN 338

DIN 338

HSS
M2

NX

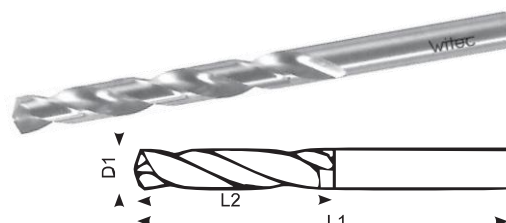
118°

GEWALZT
ROLLED

- Zylinderschaft
- Kreuzanschliff
- gewalzt und poliert

- straight shank
- split point
- rolled and polished

INFOBOX



Art.-Nr.: 3-12102GP

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
1.00	34	12	3-12102GP
1.10	36	14	3-12102GP
1.20	36	16	3-12102GP
1.30	38	16	3-12102GP
1.40	40	18	3-12102GP
1.50	40	18	3-12102GP
1.60	43	20	3-12102GP
1.70	43	20	3-12102GP
1.80	46	22	3-12102GP
1.90	46	22	3-12102GP
2.00	49	24	3-12102GP
2.10	49	24	3-12102GP
2.20	53	27	3-12102GP
2.30	53	27	3-12102GP
2.40	57	30	3-12102GP
2.50	57	30	3-12102GP
2.60	57	30	3-12102GP
2.70	61	33	3-12102GP
2.80	61	33	3-12102GP
2.90	61	33	3-12102GP
3.00	61	33	3-12102GP
3.10	65	36	3-12102GP
3.20	65	36	3-12102GP
3.30	65	36	3-12102GP
3.40	70	39	3-12102GP
3.50	70	39	3-12102GP
3.60	70	39	3-12102GP
3.70	70	39	3-12102GP
3.80	75	43	3-12102GP
3.90	75	43	3-12102GP
4.00	75	43	3-12102GP

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
4.10	75	43	3-12102GP
4.20	75	43	3-12102GP
4.30	80	47	3-12102GP
4.40	80	47	3-12102GP
4.50	80	47	3-12102GP
4.60	80	47	3-12102GP
4.70	80	47	3-12102GP
4.80	86	52	3-12102GP
4.90	86	52	3-12102GP
5.00	86	52	3-12102GP
5.10	86	52	3-12102GP
5.20	86	52	3-12102GP
5.30	86	52	3-12102GP
5.40	93	57	3-12102GP
5.50	93	57	3-12102GP
5.60	93	57	3-12102GP
5.70	93	57	3-12102GP
5.80	93	57	3-12102GP
5.90	93	57	3-12102GP
6.00	93	57	3-12102GP
6.10	101	63	3-12102GP
6.20	101	63	3-12102GP
6.30	101	63	3-12102GP
6.40	101	63	3-12102GP
6.50	101	63	3-12102GP
6.60	101	63	3-12102GP
6.70	101	63	3-12102GP
6.80	109	69	3-12102GP
6.90	109	69	3-12102GP
7.00	109	69	3-12102GP
7.10	109	69	3-12102GP

Einsatzgebiete:

N und Materialien bis 700 N/mm²

Materials:

N and materials up to 700 N/mm²

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH MACHINE DRILLS DIN 338

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
7.20	109	69	3-12102GP
7.30	109	69	3-12102GP
7.40	109	69	3-12102GP
7.50	109	69	3-12102GP
7.60	117	75	3-12102GP
7.70	117	75	3-12102GP
7.80	117	75	3-12102GP
7.90	117	75	3-12102GP
8.00	117	75	3-12102GP
8.10	117	75	3-12102GP
8.20	117	75	3-12102GP
8.30	117	75	3-12102GP
8.40	117	75	3-12102GP
8.50	117	75	3-12102GP
8.60	125	81	3-12102GP
8.70	125	81	3-12102GP
8.80	125	81	3-12102GP
8.90	125	81	3-12102GP

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
9.00	125	81	3-12102GP
9.10	125	81	3-12102GP
9.20	125	81	3-12102GP
9.30	125	81	3-12102GP
9.40	125	81	3-12102GP
9.50	125	81	3-12102GP
9.60	125	81	3-12102GP
9.70	133	87	3-12102GP
9.80	133	87	3-12102GP
9.90	133	87	3-12102GP
10.00	133	87	3-12102GP
10.20	133	87	3-12102GP
10.50	133	87	3-12102GP
11.00	142	94	3-12102GP
11.50	142	94	3-12102GP
12.00	151	101	3-12102GP
12.50	151	101	3-12102GP
13.00	151	101	3-12102GP

Sätze / Sets

Ø mm	Art.-Nr.
1-10.0 x 0.5	3-12102GP
1-13.0 x 0.5	3-12102GP



Sätze / Sets

Ø mm	Art.-Nr.
1-10.0 x 0.5	3-12102GP
1-13.0 x 0.5	3-12102GP



Einsatzgebiete:

N und Materialien bis 700 N/mm²

Materials:

N and materials up to 700 N/mm²

witec® SPIRALBOHRER DIN 340

witec® BUSHING MACHINE DRILLS DIN 340

DIN 340

HSS
M2

N

118°

GEWALZT
ROLLED

- Zylinderschaft, lange Ausführung
- Kegelmantelschliff
- gewalzt

INFOBOX

- straight shank, long series
- relieved cone
- rolled



Art.-Nr.: 3-12103

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
2.00	85	56	3-12103
2.10	85	56	3-12103
2.20	90	59	3-12103
2.30	90	59	3-12103
2.40	95	62	3-12103
2.50	95	62	3-12103
2.60	95	62	3-12103
2.70	100	66	3-12103
2.80	100	66	3-12103
2.90	100	66	3-12103
3.00	100	66	3-12103
3.10	106	69	3-12103
3.20	106	69	3-12103
3.25	106	69	3-12103
3.30	106	69	3-12103
3.40	112	73	3-12103
3.50	112	73	3-12103
3.60	112	73	3-12103
3.70	112	73	3-12103
3.80	119	78	3-12103
3.90	119	78	3-12103
4.00	119	78	3-12103
4.10	119	78	3-12103
4.20	119	78	3-12103

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
4.30	126	82	3-12103
4.40	126	82	3-12103
4.50	126	82	3-12103
4.60	126	82	3-12103
4.70	126	82	3-12103
4.75	126	82	3-12103
4.80	132	87	3-12103
4.90	132	87	3-12103
5.00	132	87	3-12103
5.10	132	87	3-12103
5.20	132	87	3-12103
5.30	132	87	3-12103
5.40	139	91	3-12103
5.50	139	91	3-12103
5.60	139	91	3-12103
5.70	139	91	3-12103
5.80	139	91	3-12103
5.90	139	91	3-12103
6.00	139	91	3-12103
6.10	148	97	3-12103
6.20	148	97	3-12103
6.30	148	97	3-12103
6.40	148	97	3-12103
6.50	148	97	3-12103

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
6.80	156	102	3-12103
7.00	156	102	3-12103
7.20	156	102	3-12103
7.50	156	102	3-12103
7.80	165	109	3-12103
8.00	165	109	3-12103
8.20	165	109	3-12103
8.50	165	109	3-12103
8.80	175	115	3-12103
9.00	175	115	3-12103
9.50	175	115	3-12103
9.80	184	121	3-12103
10.00	184	121	3-12103
10.20	184	121	3-12103
10.50	184	121	3-12103
11.00	195	128	3-12103
11.50	195	128	3-12103
12.00	205	134	3-12103
12.50	205	134	3-12103
13.00	205	134	3-12103
14.00	214	140	3-12103
15.00	220	144	3-12103
16.00	227	149	3-12103

Sätze / Sets

Ø mm	Art.-Nr.
1-10.0 x 0.5	3-12103

Einsatzgebiete:

N und Materialien bis 700 N/mm²

Materials:

N and materials up to 700 N/mm²

witec® MK SPIRALBOHRER DIN 345

witec® MORSE TAPER SHANK MACHINE DRILLS DIN 345

DIN 345

HSS
M2

N

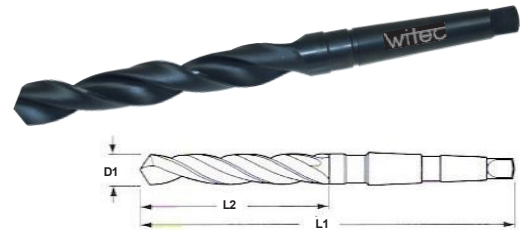
118°

GEWALZT
ROLLED

- Morsekonus
- Kegelmantelschliff
- fließgepresst
- gewalzt

- morse taper shank
- relieved cone
- endpolished
- rolled

INFOBOX



Art.-Nr.: 3-12108

Ø D1 mm	L1 mm	L2 mm	MK	Art.-Nr.
8.00	156	75	1	3-12108
8.50	156	75	1	3-12108
9.00	162	81	1	3-12108
9.50	162	81	1	3-12108
10.00	168	87	1	3-12108
10.20	168	87	1	3-12108
10.25	168	87	1	3-12108
10.50	168	87	1	3-12108
10.75	175	94	1	3-12108
11.00	175	94	1	3-12108
11.25	175	94	1	3-12108
11.50	175	94	1	3-12108
11.75	175	94	1	3-12108
12.00	182	101	1	3-12108
12.25	182	101	1	3-12108
12.50	182	101	1	3-12108
12.75	182	101	1	3-12108
13.00	182	101	1	3-12108
13.25	189	108	1	3-12108
13.50	189	108	1	3-12108
13.75	189	108	1	3-12108
14.00	212	114	1	3-12108
14.25	212	114	2	3-12108
14.50	212	114	2	3-12108
14.75	212	114	2	3-12108
15.00	212	114	2	3-12108
15.25	218	120	2	3-12108
15.50	218	120	2	3-12108
15.75	218	120	2	3-12108

Ø D1 mm	L1 mm	L2 mm	MK	Art.-Nr.
16.00	218	120	2	3-12108
16.25	223	125	2	3-12108
16.50	223	125	2	3-12108
16.75	223	125	2	3-12108
17.00	223	125	2	3-12108
17.25	228	130	2	3-12108
17.50	228	130	2	3-12108
17.75	228	130	2	3-12108
18.00	228	130	2	3-12108
18.25	233	135	2	3-12108
18.50	233	135	2	3-12108
18.75	233	135	2	3-12108
19.00	233	135	2	3-12108
19.25	238	140	2	3-12108
19.50	238	140	2	3-12108
19.75	238	140	2	3-12108
20.00	238	140	2	3-12108
20.25	243	145	2	3-12108
20.50	243	145	2	3-12108
20.75	243	145	2	3-12108
21.00	243	145	2	3-12108
21.25	248	150	2	3-12108
21.50	248	150	2	3-12108
21.75	248	150	2	3-12108
22.00	248	150	2	3-12108
22.25	248	150	2	3-12108
22.50	253	155	2	3-12108
22.75	253	155	2	3-12108
23.00	253	155	2	3-12108

witec® MK SPIRALBOHRER DIN 345

witec® MORSE TAPER SHANK MACHINE DRILLS DIN 345

Ø D1 mm	L1 mm	L2 mm	MK	Art.-Nr.
23.25	276	155	2	3-12108
23.50	276	155	3	3-12108
23.75	281	160	3	3-12108
24.00	281	160	3	3-12108
24.25	281	160	3	3-12108
24.50	281	160	3	3-12108
24.75	281	160	3	3-12108
25.00	281	160	3	3-12108
25.25	286	165	3	3-12108
25.50	286	165	3	3-12108
25.75	286	165	3	3-12108
26.00	286	165	3	3-12108
26.25	286	165	3	3-12108
26.50	291	170	3	3-12108
26.75	291	170	3	3-12108
27.00	291	170	3	3-12108
27.25	291	170	3	3-12108
27.50	291	170	3	3-12108
27.75	291	170	3	3-12108
28.00	291	170	3	3-12108
28.25	296	175	3	3-12108
28.50	296	175	3	3-12108
28.75	296	175	3	3-12108
29.00	296	175	3	3-12108
29.25	296	175	3	3-12108
29.50	296	175	3	3-12108
29.75	296	175	3	3-12108
30.00	296	175	3	3-12108
30.25	301	180	3	3-12108
30.50	301	180	3	3-12108
30.75	301	180	3	3-12108
31.00	301	180	3	3-12108
31.25	301	180	3	3-12108
31.50	301	180	3	3-12108
31.75	306	185	3	3-12108
32.00	334	185	4	3-12108
32.50	334	185	4	3-12108
33.00	334	185	4	3-12108
33.50	334	185	4	3-12108
34.00	339	190	4	3-12108
34.50	339	190	4	3-12108

Ø D1 mm	L1 mm	L2 mm	MK	Art.-Nr.
35.00	339	190	4	3-12108
35.50	339	190	4	3-12108
36.00	344	195	4	3-12108
36.50	344	195	4	3-12108
37.00	344	195	4	3-12108
37.50	344	195	4	3-12108
38.00	349	200	4	3-12108
38.50	349	200	4	3-12108
39.00	349	200	4	3-12108
39.50	349	200	4	3-12108
40.00	349	200	4	3-12108
40.50	354	205	4	3-12108
41.00	354	205	4	3-12108
41.50	354	205	4	3-12108
42.00	354	205	4	3-12108
42.50	354	205	4	3-12108
43.00	359	210	4	3-12108
43.50	359	210	4	3-12108
44.00	359	210	4	3-12108
44.50	359	210	4	3-12108
45.00	359	210	4	3-12108
45.50	364	215	4	3-12108
46.00	364	215	4	3-12108
46.50	364	215	4	3-12108
47.00	364	215	4	3-12108
47.50	364	215	4	3-12108
48.00	369	220	4	3-12108
48.50	369	220	4	3-12108
49.00	369	220	4	3-12108
49.50	369	220	4	3-12108
50.00	369	220	4	3-12108
51.00	412	295	5	3-12108
52.00	412	295	5	3-12108
53.00	412	295	5	3-12108
54.00	417	230	5	3-12108
55.00	417	230	5	3-12108
56.00	417	230	5	3-12108
57.00	422	235	5	3-12108
58.00	422	235	5	3-12108
59.00	422	235	5	3-12108
60.00	422	235	5	3-12108

Sätze / Sets

Ø mm	Art.-Nr.
14,00-23,00	3-12108
14,00-30,00	3-12108

Einsatzgebiete:

N und Materialien bis 700 N/mm²

Materials:

N and materials up to 700 N/mm²

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH MACHINE DRILLS DIN 338

DIN 338

HSS-Co5%
M35

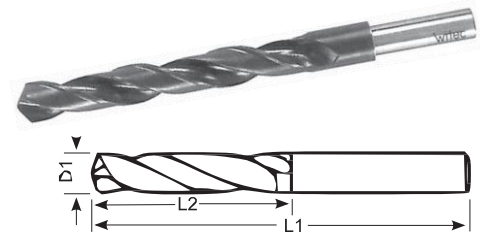
NX

130°

GESCHLIFFEN
GRINDED

- Zylinderschaft
- abgesetzter Schaft-Ø 13,0 mm
- Kreuzanschliff
- straight shank
- reduced shank-Ø 13,0 mm
- split point

INFOBOX



Art.-Nr.: 3-12302

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
13.50	160	108	3-12302
14.00	160	108	3-12302
14.50	169	114	3-12302
15.00	169	114	3-12302
15.50	178	120	3-12302
16.00	178	120	3-12302
16.50	184	125	3-12302
17.00	184	125	3-12302
17.50	191	130	3-12302
18.00	191	130	3-12302
18.50	198	135	3-12302
19.00	198	135	3-12302
19.50	205	140	3-12302
20.00	205	140	3-12302

Einsatzgebiete:

legierte und unlegierte Stähle und Gussarten mit Festigkeiten über 800 N/mm²

Materials:

alloyed and unalloyed steels and castings with a tensile strength over 800 N/mm²

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH MACHINE DRILLS DIN 338

DIN 338

HSS
M2

N

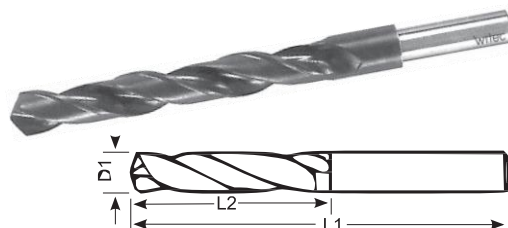
118°

GEWALZT
ROLLED

- abgesetzter Schaft (8, 10 und 13 mm)
- Kegelmantelschliff
- Gewalzt

INFOBOX

- reduced shank (8, 10 and 13 mm)
- relieved cone
- rolled



Art.-Nr.: 3-12402

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
8,50	117	75	3-12402
9,00	125	81	3-12402
9,50	125	81	3-12402
10,00	133	87	3-12402
10,50	133	87	3-12402
11,00	142	94	3-12402
11,50	142	94	3-12402
12,00	151	101	3-12402
12,50	151	101	3-12402
13,00	151	101	3-12402
13,50	160	108	3-12402
14,00	160	108	3-12402
14,50	169	114	3-12402
15,00	169	114	3-12402
15,50	178	120	3-12402
16,00	178	120	3-12402
16,50	184	125	3-12402
17,00	184	125	3-12402

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
17.50	191	130	3-12402
18.00	191	130	3-12402
18.50	198	135	3-12402
19.00	198	135	3-12402
19.50	205	140	3-12402
20.00	205	140	3-12402
20.50	225	145	3-12402
21.00	225	145	3-12402
21.50	210	150	3-12402
22.00	210	150	3-12402
23.00	215	155	3-12402
24.00	220	160	3-12402
25.00	220	160	3-12402
26.00	235	165	3-12402
27.00	235	170	3-12402
28.00	235	170	3-12402
29.00	240	175	3-12402
30.00	240	175	3-12402

Einsatzgebiete:

N und Materialien bis 700 N/mm²

Materials:

N and materials up to 700 N/mm²

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH MACHINE DRILLS DIN 338

DIN 338

HSS
M2

NX

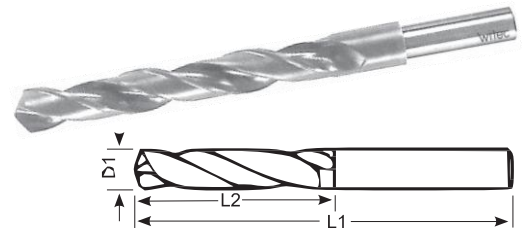
118°

GESCHLIFFEN
GRINDED

- abgesetzter Schaft
- Kreuzanschliff
- blank

INFOBOX

- reduced shank
- split point
- bright finished



Art.-Nr.: 3-12602

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
10.50	133	87	3-12602
11.00	142	94	3-12602
11.50	142	94	3-12602
12.00	151	101	3-12602
12.50	151	101	3-12602
13.00	151	101	3-12602
13.50	160	108	3-12602
14.00	160	108	3-12602
14.50	169	114	3-12602
15.00	169	114	3-12602
15.50	178	120	3-12602
16.00	178	120	3-12602
16.50	184	125	3-12602
17.00	184	125	3-12602
17.50	191	130	3-12602

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
18.00	191	130	3-12602
18.50	198	135	3-12602
19.00	198	135	3-12602
19.50	205	140	3-12602
20.00	205	140	3-12602
20.50	225	145	3-12602
21.00	225	145	3-12602
21.50	230	150	3-12602
22.00	230	150	3-12602
22.50	230	155	3-12602
23.00	230	155	3-12602
23.50	230	155	3-12602
24.00	250	160	3-12602
24.50	250	160	3-12602
25.00	250	160	3-12602

Einsatzgebiete:

N, W, GG (bis GG40) und hochlegierte Materialien bis 900 N/mm²

Materials:

N, W, GG (bis GG40) and high alloyed materials up to 900 N/mm²

witec® DOPPELELENDBOHRER witec® DOUBLE ENDED BODY DRILLS

witec-NORM

HSS-Co5%
M35

NX

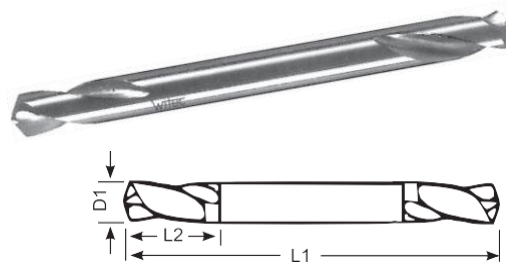
118°/130°

GESCHLIFFEN
GRINDED

- Zylinderschaft
- Kreuzanschliff
- Blank witec

INFOBOX

- straight shank
- split-point
- bright finished



Art.-Nr.: 3-12701 / 3-12801 / 3-13001

HSS-Co5% M35, 130°

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
3,00	46	9,5	3-12701
3,10	49	9,5	3-12701
3,20	49	9,5	3-12701
3,25	49	9,5	3-12701
3,30	49	9,5	3-12701
3,50	52	13	3-12701
4,00	55	13	3-12701
4,10	55	13	3-12701
4,20	55	13	3-12701
4,50	58	16	3-12701
4,80	62	16	3-12701
4,90	62	16	3-12701
5,00	62	16	3-12701
5,10	62	16	3-12701
5,20	62	16	3-12701
5,50	66	16	3-12701
6,00	66	16	3-12701

HSS, 118°

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
2,50	43	9,5	3-12801
3,00	46	9,5	3-12801
3,10	49	9,5	3-12801
3,20	49	9,5	3-12801
3,25	49	9,5	3-12801
3,30	49	9,5	3-12801
3,40	52	13	3-12801
3,50	52	13	3-12801
4,00	55	13	3-12801
4,10	55	13	3-12801
4,20	55	13	3-12801
4,50	58	16	3-12801
4,80	62	16	3-12801
4,90	62	16	3-12801
5,00	62	16	3-12801
5,10	62	16	3-12801
5,20	62	16	3-12801
5,25	62	16	3-12801
5,50	66	16	3-12801
6,00	66	16	3-12801

Einsatzgebiete:

N, W, VA, GG (bis GG40) und hochlegierte Materialien bis 1200 N/mm²

Materials:

N, W, INOX, GG (bis GG40) and high alloyed materials up to 1200 N/mm²

witec® DOPPELELENDBOHRER witec® DOUBLE ENDED BODY DRILLS

HSS, 130°

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
2.00	38	7.5	3-13001
2.50	43	9.5	3-13001
2.70	46	9.5	3-13001
3.00	46	9.5	3-13001
3.10	49	9.5	3-13001
3.20	49	9.5	3-13001
3.25	49	9.5	3-13001
3.30	49	9.5	3-13001
3.50	52	13	3-13001
3.80	55	13	3-13001
4.00	55	13	3-13001
4.10	55	13	3-13001
4.20	55	13	3-13001
4.50	58	16	3-13001
4.80	62	16	3-13001

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
4.90	62	16	3-13001
5.00	62	16	3-13001
5.10	62	16	3-13001
5.20	62	16	3-13001
5.50	66	16	3-13001
6.00	66	16	3-13001
6.50	70	16	3-13001
7.00	74	16	3-13001
7.50	74	16	3-13001
8.00	79	20	3-13001
8.50	79	20	3-13001
9.00	79	20	3-13001
9.50	79	20	3-13001
10.00	79	20	3-13001

witec® SCHWEISSPUNKTBOHRER witec® WELDINGSPOT DRILLS

DIN1897

HSS-Co5%
M35

SONDERSPITZE
SPECIAL POINT

GESCHLIFFEN
GRINDED

- mit Sonderspitze ähnl. DIN 1412 E
- profilgeschliffene Qualität, 90°
- blank oder TiN beschichtet

INFOBOX

- with special point similar DIN 1412E
- profile ground quality, 90°
- bright finished or TiN coated



Art.-Nr.: 3-13101 / TiN

DIN 1897, blank / bright finished

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
6.00	66	28	3-13101 / TiN
7.00	74	34	3-13101 / TiN
8.00	79	37	3-13101 / TiN
10.00	89	43	3-13101 / TiN

Einsatzgebiete:

N, W, VA, GG (bis GG40) und hochlegierte Materialien bis 1200 N/mm²

Materials:

N, W, INOX, GG (bis GG40) and high alloyed materials up to 1200 N/mm²

witec® SPIRALBOHRER DIN 338 witec® DRILL DIN 338

DIN 338

HSS
M2

CenterTip

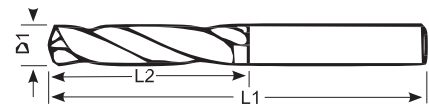
118°

GESCHLIFFEN
GRINDED

- 118° Spitzenwinkel
- goldfinished, Kreuzanschliff
- mit Zentrumschneide
- 3-Flächenschneide ab 4,0mm
- für Hand- und stationäre Maschinen

INFOBOX

- 118° point angle
- goldfinished, splitpoint
- with center tip
- 3-flatted shank from 4,0 mm Ø and above
- for hand- and stationary machines



Art.-Nr.: 3-14102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
1.00	34	12	3-14102
1.50	40	18	3-14102
2.00	49	24	3-14102
2.50	57	30	3-14102
3.00	61	33	3-14102
3.30	65	36	3-14102
3.50	70	39	3-14102
4.00	75	43	3-14102
4.20	75	43	3-14102
4.50	80	47	3-14102
5.00	86	52	3-14102
5.50	93	57	3-14102
6.00	93	57	3-14102
6.50	101	63	3-14102
6.80	109	69	3-14102
7.00	109	69	3-14102
7.50	109	69	3-14102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
8,00	117	75	3-14102
8,50	117	75	3-14102
9,00	125	81	3-14102
9,50	125	81	3-14102
10,00	133	87	3-14102
10,20	133	87	3-14102
10,50	133	87	3-14102
11,00	142	94	3-14102
11,50	142	94	3-14102
12,00	151	101	3-14102
12,50	151	101	3-14102
13,00	151	101	3-14102

Sätze / Sets

Ø mm	Art.-Nr.
4,0 - 5,0 - 6,0 - 8,0 - 10,0 mm	3-14102
1-10.0 x 0.5	3-14102
1-10,5 x 0,5	3-14102
+ Kernlochmaße / Core Hole Drills 3,3 - 4,2 - 6,8 - 10,2 mm	3-14102
1-13.0 x 0.5	3-14102



Einsatzgebiete:

Hochlegierte Materialien bis 900 N/mm², Aluminium, Kunststoffe, Hart- und Weichholz

Materials:

High alloyed materials up to 900 N/mm², aluminium, plastics, hardwood and softwood

witec® KURZER SPIRALBOHRER DIN 338

witec® JOBBER LENGTH DRILL DIN 338

DIN 338

HSS-Co5%
M35

NX

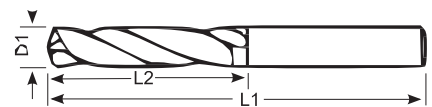
130°

GESCHLIFFEN
GRINDED

- 130° Kreuzanschliff
- Zylinderschaft
- für Hand- und stationäre CNC-Maschinen
- zum Einsatz in der Mischbearbeitung

INFOBOX

- 130° splitpoint
- straight shank
- for hand- and stationary CNC-machines
- to use in multi purpose working field



Art.-Nr.: 3-15102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
1.00	34	12	3-15102
1.10	36	14	3-15102
1.20	38	16	3-15102
1.30	38	16	3-15102
1.40	40	18	3-15102
1.50	40	18	3-15102
1.60	43	20	3-15102
1.70	43	20	3-15102
1.80	46	22	3-15102
1.90	46	22	3-15102
2.00	49	24	3-15102
2.10	49	24	3-15102
2.20	53	27	3-15102
2.30	53	27	3-15102
2.40	57	30	3-15102
2.50	57	30	3-15102
2.60	57	30	3-15102
2.70	61	33	3-15102
2.80	61	33	3-15102
2.90	61	33	3-15102
3.00	61	33	3-15102
3.10	65	36	3-15102
3.20	65	36	3-15102
3.30	65	36	3-15102
3.40	70	39	3-15102
3.50	70	39	3-15102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
3.60	70	39	3-15102
3.70	70	39	3-15102
3.80	75	43	3-15102
3.90	75	43	3-15102
4.00	75	43	3-15102
4.10	75	43	3-15102
4.20	75	43	3-15102
4.30	80	47	3-15102
4.40	80	47	3-15102
4.50	80	47	3-15102
4.60	80	47	3-15102
4.70	80	47	3-15102
4.80	86	52	3-15102
4.90	86	52	3-15102
5.00	86	52	3-15102
5.10	86	52	3-15102
5.20	86	52	3-15102
5.30	86	52	3-15102
5.40	93	57	3-15102
5.50	93	57	3-15102
5.60	93	57	3-15102
5.70	93	57	3-15102
5.80	93	57	3-15102
5.90	93	57	3-15102
6.00	93	57	3-15102
6.10	101	63	3-15102

Einsatzgebiete:

N, W, VA, GG (bis GG40) und hochlegierte Materialien bis 1200 N/mm²

Materials:

N, W, INOX, GG (bis GG40) and high alloyed materials up to 1200 N/mm²

witec® KURZER SPIRALBOHRER DIN 338 witec® JOBBER LENGTH DRILL DIN 338

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
6.20	101	63	3-15102
6.30	101	63	3-15102
6.40	101	63	3-15102
6.50	101	63	3-15102
6.60	101	63	3-15102
6.70	101	63	3-15102
6.80	109	69	3-15102
6.90	109	69	3-15102
7.00	109	69	3-15102
7.10	109	69	3-15102
7.20	109	69	3-15102
7.30	109	69	3-15102
7.40	109	69	3-15102
7.50	109	69	3-15102
7.60	117	75	3-15102
7.70	117	75	3-15102
7.80	117	75	3-15102
7.90	117	75	3-15102
8.00	117	75	3-15102
8.10	117	75	3-15102
8.20	117	75	3-15102
8.30	117	75	3-15102
8.40	117	75	3-15102
8.50	117	75	3-15102
8.60	125	81	3-15102
8.70	125	81	3-15102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
8.80	125	81	3-15102
8.90	125	81	3-15102
9.00	125	81	3-15102
9.10	125	81	3-15102
9.20	125	81	3-15102
9.30	125	81	3-15102
9.40	125	81	3-15102
9.50	125	81	3-15102
9.60	133	87	3-15102
9.70	133	87	3-15102
9.80	133	87	3-15102
9.90	133	87	3-15102
10.00	133	87	3-15102
10.20	133	87	3-15102
10.50	133	87	3-15102
11.00	142	94	3-15102
11.50	142	94	3-15102
12.00	151	101	3-15102
12.50	151	101	3-15102
13.00	151	101	3-15102
13.50	160	108	3-15102
14.00	160	108	3-15102
14.50	169	114	3-15102
15.00	169	114	3-15102
15.50	178	120	3-15102
16.00	178	120	3-15102

Sätze / Sets

Ø mm	Art.-Nr.
1,00-10,00x0,50mm Metal	3-15102 Set
1,00-13,00x0,50mm Metal	3-15102 Set
1,00-10,50x0,50mm Metal	3-15102 Set
1,00-10,00x0,50mm Plastik	3-15102 Set
1,00-13,00x0,50mm Plastik	3-15102 Set
1,00-10,50x0,50mm Plastik	3-15102 Set



Drill Boy

Ø mm	Art.-Nr.
1,0-13,0x0,50mm+CD	3-15102 Drill Boy



Depot

Ø mm	Art.-Nr.
1,00-10,00x0,50mm Plastik	3-15102 Depot



Einsatzgebiete:

N, W, VA, GG (bis GG40) und hochlegierte Materialien bis 1200 N/mm²

Materials:

N, W, INOX, GG (bis GG40) and high alloyed materials up to 1200 N/mm²

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH DRILL DIN 338

DIN 338

HSS

NX

118°

GESCHLIFFEN
GRINDED

- 118° Kreuzanschliff
- Stufenspitze mit TiN-Kopfbeschichtung
- 3-Flächenschaft
- für Hand- und stationäre Maschinen
- zum Einsatz in der Mischbearbeitung
- 118° splitpoint
- Step Point with TiN-Head-Coating
- 3-Flats Shank
- for hand- and stationary machines
- to use in multi purpose working field

INFOBOX



Art.-Nr.: 3-16102TiNplus

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
1,00	34	12	3-16102TiNplus
1,50	40	18	3-16102TiNplus
2,00	49	24	3-16102TiNplus
2,50	57	30	3-16102TiNplus
3,00	61	33	3-16102TiNplus
3,10	65	36	3-16102TiNplus
3,30	65	36	3-16102TiNplus
3,50	70	39	3-16102TiNplus
4,00	75	43	3-16102TiNplus
4,10	75	43	3-16102TiNplus
4,20	75	43	3-16102TiNplus
4,50	80	47	3-16102TiNplus
5,00	86	52	3-16102TiNplus
5,10	86	52	3-16102TiNplus
5,50	93	57	3-16102TiNplus
6,00	93	57	3-16102TiNplus

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
6,50	101	63	3-16102TiNplus
6,80	109	69	3-16102TiNplus
7,00	109	69	3-16102TiNplus
7,50	109	69	3-16102TiNplus
8,00	117	75	3-16102TiNplus
8,50	117	75	3-16102TiNplus
9,00	125	81	3-16102TiNplus
9,50	125	81	3-16102TiNplus
10,00	133	87	3-16102TiNplus
10,20	133	87	3-16102TiNplus
10,50	133	87	3-16102TiNplus
11,00	142	94	3-16102TiNplus
11,50	142	94	3-16102TiNplus
12,00	151	101	3-16102TiNplus
12,50	151	101	3-16102TiNplus
13,00	151	101	3-16102TiNplus

Sätze / Sets

Ø mm	Art.-Nr.
1,00-10,00x0,50mm in Kunststoffkassette, grau oder blau, 19-teilig in Plastik-Box, gray or blue, 19-pieces	3-16102TiNplus Set
1,00-13,00x0,50mm in Kunststoffkassette, grau oder blau, 25-teilig in Plastik-Box, gray or blue, 25-pieces	3-16102TiNplus Set
1,00-10,50x0,50mm plus Kernlochbohrer 3,3-4,2-6,8-10,5 mm in Kunststoffkassette, grau oder blau, 24-teilig in Plastik-Box, gray or blue, 124-pieces	3-16102TiNplus Set
4-5-6-8-10 mm in Kunststoffbox, schwarz, 5-teilig in Plastik-Box, schwarz, 5-pieces	3-16102TiNplus Set

Einsatzgebiete:

N-Stähle, Nichteisenmetalle, GG (GG40 bis GGG40), Kunststoff, Acryl, Holz

Materials:

Regular Steels, NON-ferrous Metal, Cast-Steel (GG40 bis GGG40), Plastics, Acrylic, Wood

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH DRILL DIN 338

DIN 338

HSS-Co5%
M35

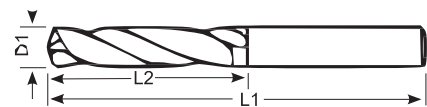
NX

118°

GESCHLIFFEN
GRINDED

- 118° Kreuzanschliff
- Stufenspitze mit TiN-Kopfbeschichtung
- 3-Flächenschaft
- für Hand- und stationäre Maschinen
- zum Einsatz in der Mischbearbeitung
- 118° splitpoint
- Step Point with TiN-Head-Coating
- 3-Flats Shank
- for hand- and stationary machines
- to use in multi purpose working field

INFOBOX



Art.-Nr.: 3-17102TiNplus

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
1,00	34	12	3-17102TiNplus
1,50	40	18	3-17102TiNplus
2,00	49	24	3-17102TiNplus
2,50	57	30	3-17102TiNplus
3,00	61	33	3-17102TiNplus
3,10	65	36	3-17102TiNplus
3,30	65	36	3-17102TiNplus
3,50	70	39	3-17102TiNplus
4,00	75	43	3-17102TiNplus
4,10	75	43	3-17102TiNplus
4,20	75	43	3-17102TiNplus
4,50	80	47	3-17102TiNplus
5,00	86	52	3-17102TiNplus
5,10	86	52	3-17102TiNplus
5,50	93	57	3-17102TiNplus
6,00	93	57	3-17102TiNplus
6,50	101	63	3-17102TiNplus
6,80	109	69	3-17102TiNplus
7,00	109	69	3-17102TiNplus
7,50	109	69	3-17102TiNplus
8,00	117	75	3-17102TiNplus
8,50	117	75	3-17102TiNplus
9,00	125	81	3-17102TiNplus
9,50	125	81	3-17102TiNplus
10,00	133	87	3-17102TiNplus

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
6,50	101	63	3-17102TiNplus
6,80	109	69	3-17102TiNplus
7,00	109	69	3-17102TiNplus
7,50	109	69	3-17102TiNplus
8,00	117	75	3-17102TiNplus
8,50	117	75	3-17102TiNplus
9,00	125	81	3-17102TiNplus
9,50	125	81	3-17102TiNplus
10,00	133	87	3-17102TiNplus
10,20	133	87	3-17102TiNplus
10,50	133	87	3-17102TiNplus
11,00	142	94	3-17102TiNplus
11,50	142	94	3-17102TiNplus
12,00	151	101	3-17102TiNplus
12,50	151	101	3-17102TiNplus
13,00	151	101	3-17102TiNplus
13,50	160	108	3-17102TiNplus
14,00	160	108	3-17102TiNplus
14,50	169	114	3-17102TiNplus
15,00	169	114	3-17102TiNplus
15,50	178	120	3-17102TiNplus
16,00	178	120	3-17102TiNplus
16,50	184	125	3-17102TiNplus
17,00	184	125	3-17102TiNplus
17,50	191	130	3-17102TiNplus

Einsatzgebiete:

VA, HARTBEARBEITUNG, N-Stähle, Nichteisenmetalle, GG (GG40 bis GGG40), Kunststoff, Acryl, Holz

Materials:

INOX, Hard Machining, Mild Steel, NON-ferrous Metal, Cast-Steel (GG40 bis GGG40), Plastics, Acrylic, Wood

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH DRILL DIN 338

Ø D1 mm	L1 Mm	L2 mm	Art.-Nr.
18,00	191	130	3-17102TiNplus
18,50	198	130	3-17102TiNplus
19,00	198	135	3-17102TiNplus
19,50	205	140	3-17102TiNplus
20,00	205	140	3-17102TiNplus
21,00	205	145	3-17102TiNplus
22,00	210	150	3-17102TiNplus
23,00	215	155	3-17102TiNplus
24,00	220	160	3-17102TiNplus
25,00	220	160	3-17102TiNplus



Sätze / Sets

Ø mm	Art.-Nr.
1,00-10,00x0,50mm in Kunststoffkassette, grau oder blau, 19-teilig in Plastik-Box, gray or blue, 19-pieces	3-17102TiNplus Set
1,00-13,00x0,50mm in Kunststoffkassette, grau oder blau, 25-teilig in Plastik-Box, gray or blue, 25-pieces	3-17102TiNplus Set
1,00-10,50x0,50mm plus Kernlochbohrer 3,3-4,2-6,8-10,5 mm in Kunststoffkassette, grau oder blau, 24-teilig in Plastik-Box, gray or blue, 124-pieces	3-17102TiNplus Set
4-5-6-8-10 mm in Kunststoffbox, schwarz, 5-teilig in Plastik-Box, schwarz, 5-pieces	3-17102TiNplus Set

Einsatzgebiete:

VA, HARTBEARBEITUNG, N-Stähle, Nichteisenmetalle, GG (GG40 bis GGG40), Kunststoff, Acryl, Holz

Materials:

INOX, Hard Machining, Mild Steel, NON-ferrous Metal, Cast-Steel (GG40 bis GGG40), Plastics, Acrylic, Wood

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH DRILL DIN 338

DIN 338

HSS-Co5%
M35

NX

118°

GESCHLIFFEN
GRINDED

- 118° Kreuzanschliff
- Stufenspitze mit TiN-Kopfbeschichtung
- 3-Flächenschaft 13,00 mm abgesetzt
- für Hand- und stationäre Maschinen
- zum Einsatz in der Mischbearbeitung
- 118° splitpoint
- Step Point with TiN-Head-Coating
- 3-Flats Shank 13,00 reduced
- for hand- and stationary machines
- to use in multi purpose working field

INFOBOX



Art.-Nr.: 3-17112TiNplus

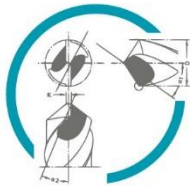
Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
13,00	151	101	3-17112TiNplus
13,50	160	108	3-17112TiNplus
14,00	160	108	3-17112TiNplus
14,50	169	114	3-17112TiNplus
15,00	169	114	3-17112TiNplus
15,50	178	120	3-17112TiNplus
16,00	178	120	3-17112TiNplus
16,50	184	125	3-17112TiNplus
17,00	184	125	3-17112TiNplus
17,50	191	130	3-17112TiNplus
18,00	191	130	3-17112TiNplus
18,50	198	130	3-17112TiNplus
19,00	198	135	3-17112TiNplus
19,50	205	140	3-17112TiNplus
20,00	205	140	3-17112TiNplus
21,00	205	145	3-17112TiNplus
22,00	210	150	3-17112TiNplus
23,00	215	155	3-17112TiNplus
24,00	220	160	3-17112TiNplus
25,00	220	160	3-17112TiNplus

Einsatzgebiete:

VA, HARTBEARBEITUNG, N-Stähle, Nichteisenmetalle, GG (GG40 bis GGG40), Kunststoff, Acryl, Holz

Materials:

INOX, Hard Machining, Mild Steel, NON-ferrous Metal, Cast-Steel (GG40 bis GGG40), Plastics, Acrylic, Wood



witec®
WERKZEUG- UND INDUSTRIE TECHNIK

Risto
Reparatur- und
Instandhaltung

witec® FRÄSBOHRER witec® SAW DRILLS

witec-NORM

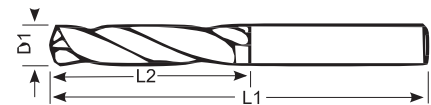
HSS
M2

GESCHLIFFEN
GRINDED

- geschliffene Fräszähne und tiefgeschliffene Spannuten
- Fräsen, Trennen
- Raspeln und Feilen von Holz
- blank oder TiN beschichtet

INFOBOX

- grinded milling teeth and deep grinded chip flute
- milling, cutting
- rasping and filing of wood
- bright finished or TiN coating



Art.-Nr.: 3-18001 / 3-18001TiN

blank / bright finished

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
6.00	90	-	3-18001
8.00	90	-	3-18001

TiN beschichtet / TiN coated

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
6.00	90	-	3-18001TiN
8.00	90	-	3-18001TiN

Einsatzgebiete:

Spanplatten, Kunststoffe, Aluminium, andere NE-Metalle, Stahlblech, Gipskarton

Materials:

chipboard, plastics, aluminium, other none iron-metals, steel sheets, plasterboard

witec® ANBOHRER witec® RIVET DRILLS

witec-NORM

HSS
M2

NX

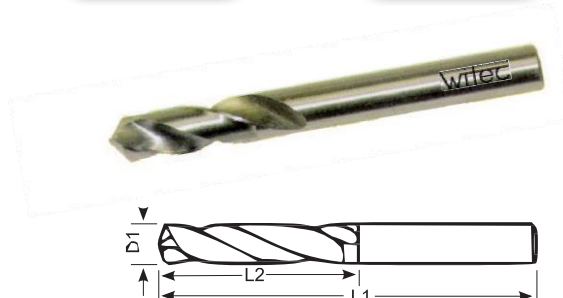
118°

GESCHLIFFEN
GRINDED

- Zylinderschaft
- extra kurze Ausführung
- Kreuzanschliff
- blank

INFOBOX

- straight shank
- extra short series
- split-point
- bright finished



Art.-Nr.: 3-18100

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
3.00	37	14	3-18100
3.10	37	14	3-18100
3.20	37	14	3-18100
3,25	40	16	3-18100
3.30	40	16	3-18100
3,50	42	16	3-18100
3.60	42	16	3-18100
3.70	42	16	3-18100
3,75	42	16	3-18100
3.80	42	16	3-18100
4.00	42	16	3-18100
4.10	44	18	3-18100
4.20	44	18	3-18100

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
4.50	48	20	3-18100
4.80	48	20	3-18100
4.90	50	22	3-18100
5.00	50	22	3-18100
5.10	52	24	3-18100
5.20	52	24	3-18100
5.30	52	24	3-18100
5.50	52	24	3-18100
5.60	55	26	3-18100
5.70	55	26	3-18100
5.80	55	26	3-18100
6.00	55	26	3-18100

Einsatzgebiete:

N, W, GG (bis GG40) und Materialien bis 900 N/mm²

Materials:

N, W, GG (bis GG40) and materials up to 900 N/mm²

witec® SPIRALBOHRER DIN 1897

witec® SCREW MACHINE DRILLS DIN 1897

DIN 1897

HSS
M2

NX

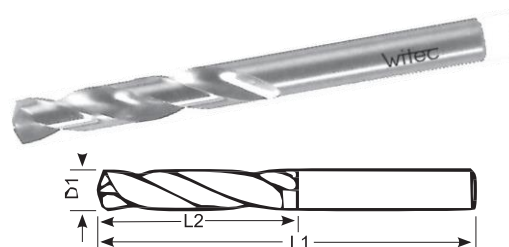
118°

GESCHLIFFEN
GRINDED

- Zylinderschaft
- kurze Ausführung
- Kreuzanschliff
- blank

INFOBOX

- straight shank
- short series
- split-point
- bright finished



Art.-Nr.: 3-18101

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
1.00	26	6	3-18101
1.50	32	9	3-18101
2.00	38	12	3-18101
2.10	38	12	3-18101
2.20	40	13	3-18101
2.30	40	13	3-18101
2.40	43	14	3-18101
2.50	43	14	3-18101
2.60	43	14	3-18101
2.70	46	16	3-18101
2.80	46	16	3-18101
2.90	46	16	3-18101
3.00	46	16	3-18101
3.10	49	18	3-18101
3.20	49	18	3-18101
3.30	49	18	3-18101
3.40	52	20	3-18101
3.50	52	20	3-18101
3.60	52	20	3-18101
3.70	52	20	3-18101
3.80	55	22	3-18101
3.90	55	22	3-18101
4.00	55	22	3-18101
4.10	55	22	3-18101
4.20	55	22	3-18101
4.30	58	24	3-18101
4.40	58	24	3-18101
4.50	58	24	3-18101
4.60	58	24	3-18101

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
4.70	58	24	3-18101
4.80	62	26	3-18101
4.90	62	26	3-18101
5.00	62	26	3-18101
5.10	62	26	3-18101
5.20	62	26	3-18101
5.30	62	26	3-18101
5.40	66	28	3-18101
5.50	66	28	3-18101
5.60	66	28	3-18101
5.70	66	28	3-18101
5.80	66	28	3-18101
5.90	66	28	3-18101
6.00	66	28	3-18101
6.50	70	31	3-18101
6.80	74	34	3-18101
7.00	74	34	3-18101
7.20	74	34	3-18101
7.50	74	34	3-18101
7.80	79	37	3-18101
8.00	79	37	3-18101
8.50	79	37	3-18101
9.00	84	40	3-18101
9.50	84	40	3-18101
10.00	89	43	3-18101
10.20	89	43	3-18101
10.50	89	43	3-18101
11.00	95	47	3-18101
11.50	95	47	3-18101

Einsatzgebiete:

N, W, GG (bis GG40) und Materialien bis 900 N/mm²

Materials:

N, W, GG (bis GG40) und materials up to 900 N/mm²

witec® SPIRALBOHRER DIN 1897 witec® SCREW MACHINE DRILLS DIN 1897

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
12.00	102	51	3-18101
12.50	102	51	3-18101
13.00	102	51	3-18101
14.00	107	54	3-18101
15.00	111	56	3-18101
16.00	115	58	3-18101



Sätze / Sets

Ø mm	Art.-Nr.
1-10.0 x 0.5	3-18101
1-13.0 x 0.5	3-18101

Art.-Nr.: 3-18101

SPIRALBOHRER DIN 1897 SCREW MACHINE DRILLS DIN 1897

DIN 1897

HSS
M2

NX

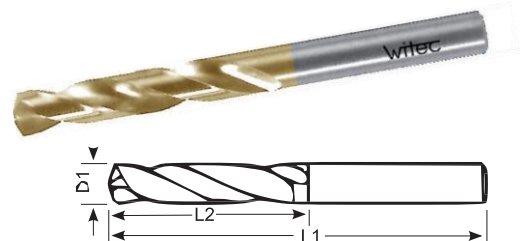
118°

GESCHLIFFEN
GRINDED

- Zylinderschaft
- kurze Ausführung
- Kreuzanschliff
- TiN-Beschichtung

INFOBOX

- straight shank
- short series
- split-point
- TiN-Coating



Art.-Nr.: 3-18101 TiN

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
1.00	26	6	3-18101TiN
1.50	32	9	3-18101TiN
2.00	38	12	3-18101TiN
2.10	38	12	3-18101TiN
2.20	40	13	3-18101TiN
2.30	40	13	3-18101TiN
2.40	43	14	3-18101TiN
2.50	43	14	3-18101TiN
2.60	43	14	3-18101TiN
2.70	46	16	3-18101TiN
2.80	46	16	3-18101TiN
2.90	46	16	3-18101TiN

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
3.00	46	16	3-18101TiN
3.10	49	18	3-18101TiN
3.20	49	18	3-18101TiN
3.30	49	18	3-18101TiN
3.40	52	20	3-18101TiN
3.50	52	20	3-18101TiN
3.60	52	20	3-18101TiN
3.70	52	20	3-18101TiN
3.80	55	22	3-18101TiN
3.90	55	22	3-18101TiN
4.00	55	22	3-18101TiN
4.10	55	22	3-18101TiN

Einsatzgebiete:

N, W, GG (bis GG40) und Materialien bis 900 N/mm²

Materials:

N, W, GG (bis GG40) and materials up to 900 N/mm²

witec® SPIRALBOHRER DIN 1897 witec® SCREW MACHINE DRILLS DIN 1897

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
4.20	55	22	3-18101TiN
4.30	58	24	3-18101TiN
4.40	58	24	3-18101TiN
4.50	58	24	3-18101TiN
4.60	58	24	3-18101TiN
4.70	58	24	3-18101TiN
4.80	62	26	3-18101TiN
4.90	62	26	3-18101TiN
5.80	66	28	3-18101TiN
5.90	66	28	3-18101TiN
6.00	66	28	3-18101TiN
6.50	70	31	3-18101TiN
6.80	74	34	3-18101TiN
7.00	74	34	3-18101TiN
7.20	74	34	3-18101TiN
7.50	74	34	3-18101TiN

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
7.80	79	37	3-18101TiN
8.00	79	37	3-18101TiN
8.50	79	37	3-18101TiN
9.00	84	40	3-18101TiN
9.50	84	40	3-18101TiN
10.00	89	43	3-18101TiN
10.20	89	43	3-18101TiN
10.50	89	43	3-18101TiN
11.00	95	47	3-18101TiN
11.50	95	47	3-18101TiN
12.00	102	51	3-18101TiN
12.50	102	51	3-18101TiN
13.00	102	51	3-18101TiN
14.00	107	54	3-18101TiN
15.00	111	56	3-18101TiN
16.00	115	58	3-18101TiN



Sätze / Sets

Ø mm	Art.-Nr.
1-10.0 x 0.5	3-18101TiN
1-13.0 x 0.5	3-18101TiN

Art.-Nr.: 3-18101TiN

Einsatzgebiete:

N, W, GG (bis GG40) und Materialien bis 900 N/mm²

Materials:

N, W, GG (bis GG40) and materials up to 900 N/mm²

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH MACHINE DRILLS DIN 338

DIN 338

HSS
M2

NX

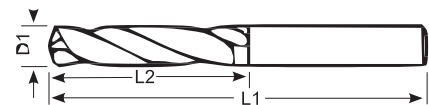
118°

GESCHLIFFEN
GRINDED

- Zylinderschaft
- Kreuzanschliff
- blank

INFOBOX

- straight shank
- split-point
- bright finished



Art.-Nr.: 3-18102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
0.20	19	2,5	3-18102
0.25	19	3	3-18102
0.30	19	3	3-18102
0.35	19	4	3-18102
0.38	19	4	3-18102
0.40	20	5	3-18102
0.45	20	5	3-18102
0.50	22	6	3-18102
0.52	22	6	3-18102
0.55	24	7	3-18102
0.58	24	7	3-18102
0.60	24	7	3-18102
0.65	26	8	3-18102
0.70	28	9	3-18102
0.75	28	9	3-18102
0.78	30	10	3-18102
0.80	30	10	3-18102
0.82	30	10	3-18102
0.85	30	10	3-18102
0.90	32	11	3-18102
0.95	32	11	3-18102
1.00	34	12	3-18102
1.05	34	12	3-18102
1.10	36	14	3-18102
1.15	36	14	3-18102
1.20	38	16	3-18102
1.25	38	16	3-18102
1.30	38	16	3-18102
1.35	40	18	3-18102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
1.40	40	18	3-18102
1.45	40	18	3-18102
1.50	40	18	3-18102
1.55	43	20	3-18102
1.60	43	20	3-18102
1.65	43	20	3-18102
1.70	43	20	3-18102
1.75	46	22	3-18102
1.80	46	22	3-18102
1.85	46	22	3-18102
1.90	46	22	3-18102
1.95	49	24	3-18102
2.00	49	24	3-18102
2.10	49	24	3-18102
2.20	53	27	3-18102
2.25	53	27	3-18102
2.30	53	27	3-18102
2.40	57	30	3-18102
2.50	57	30	3-18102
2.60	57	30	3-18102
2.70	61	33	3-18102
2.75	61	33	3-18102
2.80	61	33	3-18102
2.90	61	33	3-18102
3.00	61	33	3-18102
3.10	65	36	3-18102
3.20	65	36	3-18102
3.25	65	36	3-18102
3.30	65	36	3-18102

Einsatzgebiete:

N, W, GG (bis GG40) und Materialien bis 900 N/mm²

Materials:

N, W, GG (bis GG40) and materials up to 900 N/mm²

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH MACHINE DRILLS DIN 338

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
3.40	70	39	3-18102
3.50	70	39	3-18102
3.60	70	39	3-18102
3.70	70	39	3-18102
3.75	70	39	3-18102
3.80	75	43	3-18102
3.90	75	43	3-18102
4.00	75	43	3-18102
4.10	75	43	3-18102
4.20	75	43	3-18102
4.25	75	43	3-18102
4.30	80	47	3-18102
4.40	80	47	3-18102
4.50	80	47	3-18102
4.60	80	47	3-18102
4.70	80	47	3-18102
4.75	80	47	3-18102
4.80	86	52	3-18102
4.90	86	52	3-18102
5.00	86	52	3-18102
5.10	86	52	3-18102
5.20	86	52	3-18102
5.25	86	52	3-18102
5.30	86	52	3-18102
5.40	93	57	3-18102
5.50	93	57	3-18102
5.60	93	57	3-18102
5.70	93	57	3-18102
5.75	93	57	3-18102
5.80	93	57	3-18102
5.90	93	57	3-18102
6.00	93	57	3-18102
6.10	101	63	3-18102
6.20	101	63	3-18102
6.25	101	63	3-18102
6.30	101	63	3-18102
6.40	101	63	3-18102
6.50	101	63	3-18102
6.60	101	63	3-18102
6.70	101	63	3-18102
6.75	109	69	3-18102
6.80	109	69	3-18102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
6.90	109	69	3-18102
7.00	109	69	3-18102
7.10	109	69	3-18102
7.20	109	69	3-18102
7.25	109	69	3-18102
7.30	109	69	3-18102
7.40	109	69	3-18102
7.50	109	69	3-18102
7.60	117	75	3-18102
7.70	117	75	3-18102
7.75	117	75	3-18102
7.80	117	75	3-18102
7.90	117	75	3-18102
8.00	117	75	3-18102
8.10	117	75	3-18102
8.20	117	75	3-18102
8.25	117	75	3-18102
8.30	117	75	3-18102
8.40	117	75	3-18102
8.50	117	75	3-18102
8.60	125	81	3-18102
8.70	125	81	3-18102
8.75	125	81	3-18102
8.80	125	81	3-18102
8.90	125	81	3-18102
9.00	125	81	3-18102
9.10	125	81	3-18102
9.20	125	81	3-18102
9.25	125	81	3-18102
9.30	125	81	3-18102
9.40	125	81	3-18102
9.50	125	81	3-18102
9.60	125	87	3-18102
9.70	133	87	3-18102
9.75	133	87	3-18102
9.80	133	87	3-18102
9.90	133	87	3-18102
10.00	133	87	3-18102
10.10	133	87	3-18102
10.20	133	87	3-18102
10.30	133	87	3-18102
10.40	133	87	3-18102

Einsatzgebiete:

N, W, GG (bis GG40) und Materialien bis 900 N/mm²

Materials:

N, W, GG (bis GG40) and materials up to 900 N/mm²

witec® SPIRALBOHRER DIN 338 witec® JOBBER LENGTH MACHINE DRILLS DIN 338

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
10.50	133	87	3-18102
10.60	133	87	3-18102
10.70	133	94	3-18102
10.80	133	94	3-18102
10.90	142	94	3-18102
11.00	142	94	3-18102
11.20	142	94	3-18102
11.40	142	94	3-18102
11.50	142	94	3-18102
11.80	142	94	3-18102
12.00	151	101	3-18102
12.20	151	101	3-18102
12.50	151	101	3-18102
12.80	151	101	3-18102
13.00	151	101	3-18102
13.50	160	108	3-18102
14.00	160	108	3-18102
14.50	169	114	3-18102
15.00	169	114	3-18102
15.50	178	120	3-18102
16.00	178	120	3-18102

Depot

Ø mm	Art.-Nr.
1-10.0 x 0.5	3-18102
1-13.0 x 0.5	3-18102



Sätze / Sets

Ø mm	Art.-Nr.
1-10.0 x 0.5	3-18102
1-13.0 x 0.5	3-18102
1-10.5 x 0.5	3-18102
1-5.90 x 0.1	3-18102
6-10.0 x 0,1	3-18102



Schrank/Display



Ø	Art.-Nr.
1-13.0 x 0.1/0.5	3-18102

jeweils/each
1.0-10.0x0.1 mm
je 10 Stück/pcs
10.5-13.0x0.5 mm
je 5 Stück/pcs

Drill Boy

Ø mm	Art.-Nr.
1-10.0 x 0.1	3-18102



Einsatzgebiete:

N, W, GG (bis GG40) und
Materialien bis 900 N/mm²

Materials:

N, W, GG (bis GG40) and
materials up to 900 N/mm²

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH MACHINE DRILLS DIN 338

DIN 338

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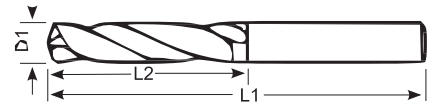
NX

118°

GESCHLIFFEN
GRINDED

- Zylinderschaft
- Kreuzanschliff
- TiN-Beschichtung
- straight shank
- split-point
- TiN-Coating

INFOBOX



Art.-Nr.: 3-18102TiN

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
1.00	34	12	3-18102TiN
1.50	40	18	3-18102TiN
2.00	49	24	3-18102TiN
2.50	57	30	3-18102TiN
3.00	61	33	3-18102TiN
3.10	65	36	3-18102TiN
3.20	65	36	3-18102TiN
3.30	65	36	3-18102TiN
3.50	70	39	3-18102TiN
4.00	75	43	3-18102TiN
4.10	75	43	3-18102TiN
4.20	75	43	3-18102TiN
4.50	80	47	3-18102TiN
5.00	86	52	3-18102TiN
5.10	86	52	3-18102TiN
5.20	86	52	3-18102TiN
5.50	93	57	3-18102TiN

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
6.00	93	57	3-18102TiN
6.50	101	63	3-18102TiN
6.80	109	69	3-18102TiN
7.00	109	69	3-18102TiN
7.50	109	69	3-18102TiN
8.00	117	75	3-18102TiN
8.50	117	75	3-18102TiN
9.00	125	81	3-18102TiN
9.50	125	81	3-18102TiN
10.00	133	87	3-18102TiN
10.20	133	87	3-18102TiN
10.50	133	87	3-18102TiN
11.00	142	94	3-18102TiN
11.50	142	94	3-18102TiN
12.00	151	101	3-18102TiN
12.50	151	101	3-18102TiN
13.00	151	101	3-18102TiN

Sätze / Sets

Ø mm	Art.-Nr.
1-10.0 x 0.5	3-18102TiN
1-13.0 x 0.5	3-18102TiN
1-10.5 x 0.5	3-18102TiN



Depot

Ø mm	Art.-Nr.
1-10.0 x 0.5	3-18102TiN



Einsatzgebiete:

N, W, GG (bis GG40) und Materialien bis 900 N/mm²

Materials:

N, W, GG (bis GG40) und materials up to 900 N/mm²

witec® SPIRALBOHRER DIN 340 witec® BUSHING MACHINE DRILLS DIN 340

DIN 340

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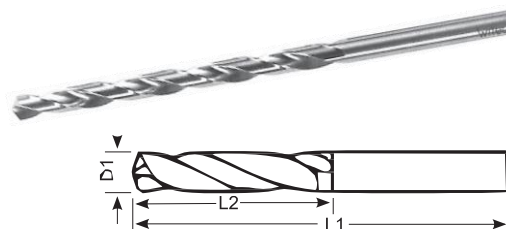
118°

GESCHLIFFEN
GRINDED

- Zylinderschaft
- lange Ausführung
- Kreuzanschliff
- blank

INFOBOX

- straight shank
- long series
- split-point
- bright finished



Art.-Nr.: 3-18103

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
1.00	56	33	3-18103
1.50	70	45	3-18103
2.00	85	56	3-18103
2.50	95	62	3-18103
2.90	100	66	3-18103
3.00	100	66	3-18103
3.10	106	69	3-18103
3.20	106	69	3-18103
3.50	112	73	3-18103
3.80	119	78	3-18103
3.90	119	78	3-18103
4.00	119	78	3-18103
4.10	119	78	3-18103
4.20	119	78	3-18103
4.30	126	82	3-18103
4.50	126	82	3-18103
4.80	132	87	3-18103
4.90	132	87	3-18103
5.00	132	87	3-18103
5.10	132	87	3-18103
5.20	132	87	3-18103
5.50	139	91	3-18103
5.80	139	91	3-18103
6.00	139	91	3-18103

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
6.20	148	97	3-18103
6.50	148	97	3-18103
6.80	156	102	3-18103
7.00	156	102	3-18103
7.20	156	102	3-18103
7.50	156	102	3-18103
7.80	165	109	3-18103
8.00	165	109	3-18103
8.20	165	109	3-18103
8.50	165	109	3-18103
9.00	175	115	3-18103
9.50	175	115	3-18103
9.80	184	121	3-18103
10.00	184	121	3-18103
10.20	184	121	3-18103
10.50	184	121	3-18103
11.00	195	128	3-18103
11.50	195	128	3-18103
12.00	205	134	3-18103
12.50	205	134	3-18103
13.00	205	134	3-18103
14.00	214	140	3-18103
15.00	220	144	3-18103

Sätze / Sets

Ø mm	Art.-Nr.
1-10 x 0,5	3-18103

Einsatzgebiete:

N, W, GG (bis GG40) und Materialien bis 900 N/mm²

Materials:

N, W, GG (bis GG40) and materials up to 900 N/mm²

witec® SPIRALBOHRER DIN 1869-I witec® TWIST DRILLS DIN 1869-I

DIN 1869-I

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NX

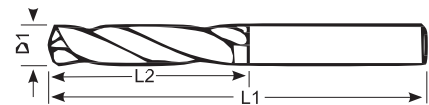
130°

GESCHLIFFEN
GRINDED

- 130° Kreuzanschliff
- Tieflochspirale, extra lange Ausführung
- Zylinderschaft
- blanke Nuten

INFOBOX

- 130° splitpoint
- deep hole flutes, extra long series
- straight shank
- bright finished flutes



Art.-Nr.: 3-18104

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
1,00	100	60	3-18104
1,50	100	60	3-18104
2,00	125	85	3-18104
2,50	140	95	3-18104
3,00	150	100	3-18104
3,10	155	105	3-18104
3,20	155	105	3-18104
3,30	155	105	3-18104
3,50	165	115	3-18104
4,00	175	120	3-18104
4,20	175	120	3-18104
4,50	185	125	3-18104
5,00	195	135	3-18104
5,50	205	240	3-18104
6,00	205	140	3-18104
6,50	215	150	3-18104

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
6,80	225	155	3-18104
7,00	225	155	3-18104
7,50	225	155	3-18104
8,00	240	165	3-18104
8,50	240	165	3-18104
9,00	250	175	3-18104
9,50	250	175	3-18104
10,00	265	185	3-18104
10,20	265	185	3-18104
10,50	265	185	3-18104
11,00	280	195	3-18104
11,50	280	195	3-18104
12,00	295	205	3-18104
12,50	295	205	3-18104
13,00	295	205	3-18104

Einsatzgebiete:

N, W, GG (bis GG40) und hochlegierte Materialien bis 900 N/mm²

Materials:

N, W, GG (bis GG40) and high alloyed materials up to 900 N/mm²

witec® SPIRALBOHRER DIN 1869-II

witec® TWIST DRILLS DIN 1869-II

DIN 1869-II

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M2

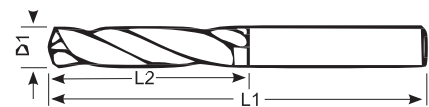
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130°

GESCHLIFFEN
GRINDED

- 130° Kreuzanschliff
- Tieflochspirale, extra lange Ausführung
- Zylinderschaft
- nitrierte Fasen
- blanke Nuten
- 130° splitpoint
- deep hole flutes, extra long series
- straight shank
- nitrited chamfer
- bright finished flutes

INFOBOX



Art.-Nr.: 3-18105

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
2.00	160	100	3-18105
2.50	180	120	3-18105
3.00	190	130	3-18105
3,20	200	135	3-18105
3.50	210	145	3-18105
4.00	220	150	3-18105
4,20	220	150	3-18105
4.50	235	160	3-18105
5.00	245	170	3-18105
5.50	260	180	3-18105
6.00	260	180	3-18105
6.50	275	190	3-18105
6,80	290	200	3-18105
7.00	290	200	3-18105

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
7.50	290	200	3-18105
8.00	305	210	3-18105
8.50	305	210	3-18105
9.00	320	220	3-18105
9.50	320	220	3-18105
10.00	340	235	3-18105
10,20	340	235	3-18105
10.50	340	235	3-18105
11.00	365	250	3-18105
11.50	365	250	3-18105
12.00	375	260	3-18105
12.50	375	260	3-18105
13.00	375	260	3-18105

Einsatzgebiete:

N, W, GG (bis GG40) und hochlegierte Materialien bis 900 N/mm²

Materials:

N, W, GG (bis GG40) and high alloyed materials up to 900 N/mm²

witec® SPIRALBOHRER DIN 1869-III

witec® TWIST DRILLS DIN 1869-III

DIN 1869-III

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M2

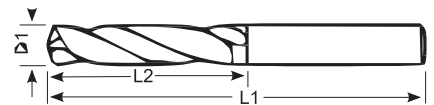
NX

130°

GESCHLIFFEN
GRINDED

- 130° Kreuzanschliff
- Tieflochspirale, extra lange Ausführung
- Zylinderschaft
- nitrierte Fasen
- blanke Nuten
- 130° splitpoint
- deep hole flutes, extra long series
- straight shank
- nitrited chamfer
- bright finished flutes

INFOBOX



Art.-Nr.: 3-18106

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
2,00	160	110	3-18106
2,50	160	120	3-18106
3,00	240	160	3-18106
3,20	250	170	3-18106
3,50	265	180	3-18106
4,00	280	190	3-18106
4,20	280	190	3-18106
4,50	295	200	3-18106
5,00	315	210	3-18106
5,50	330	225	3-18106
6,00	330	225	3-18106
6,50	350	235	3-18106
6,80	370	250	3-18106
7,00	370	250	3-18106
8,00	390	265	3-18106
9,00	410	280	3-18106
10,00	430	295	3-18106

Einsatzgebiete:

N, W, GG (bis GG40) und hochlegierte Materialien bis 900 N/mm²

Materials:

N, W, GG (bis GG40) and high alloyed materials up to 900 N/mm²

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH MACHINE DRILLS DIN 338

DIN 338

HSS
M2

N

118°

GESCHLIFFEN-
GRINDED

- Zylinderschaft
- Kegelmantelanschliff
- blank

INFOBOX

- straight shank
- relieved cone
- bright finished



Art.-Nr.: 3-19102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
0.20	19	2,5	3-19102
0.25	19	3	3-19102
0.30	19	3	3-19102
0.35	19	4	3-19102
0.38	19	4	3-19102
0.40	20	5	3-19102
0.45	20	5	3-19102
0.50	22	6	3-19102
0.52	22	6	3-19102
0.55	24	7	3-19102
0.58	24	7	3-19102
0.60	24	7	3-19102
0.65	26	8	3-19102
0.70	28	9	3-19102
0.75	28	9	3-19102
0.78	30	10	3-19102
0.80	30	10	3-19102
0.82	30	10	3-19102
0.85	30	10	3-19102
0.90	32	11	3-19102
0.95	32	11	3-19102
1.00	34	12	3-19102
1.05	34	12	3-19102
1.10	36	14	3-19102
1.15	36	14	3-19102
1.20	38	16	3-19102
1.25	38	16	3-19102
1.30	38	16	3-19102
1.35	40	18	3-19102
1.40	40	18	3-19102
1.45	40	18	3-19102
1.50	40	18	3-19102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
1.55	43	20	3-19102
1.60	43	20	3-19102
1.65	43	20	3-19102
1.70	43	20	3-19102
1.75	46	22	3-19102
1.80	46	22	3-19102
1.85	46	22	3-19102
1.90	46	22	3-19102
1.95	49	24	3-19102
2.00	49	24	3-19102
2.10	49	24	3-19102
2.20	53	27	3-19102
2.25	53	27	3-19102
2.30	53	27	3-19102
2.40	57	30	3-19102
2.50	57	30	3-19102
2.60	57	30	3-19102
2.70	61	33	3-19102
2.75	61	33	3-19102
2.80	61	33	3-19102
2.90	61	33	3-19102
3.00	61	33	3-19102
3.10	65	36	3-19102
3.20	65	36	3-19102
3.25	65	36	3-19102
3.30	65	36	3-19102
3.40	70	39	3-19102
3.50	70	39	3-19102
3.60	70	39	3-19102
3.70	70	39	3-19102
3.75	70	39	3-19102
3.80	75	43	3-19102

Einsatzgebiete:

N und Materialien bis 700 N/mm²

Materials:

N and materials up to 700 N/mm²

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH MACHINE DRILLS DIN 338

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
3.90	75	43	3-19102
4.00	75	43	3-19102
4.10	75	43	3-19102
4.20	75	43	3-19102
4.25	75	43	3-19102
4.30	80	47	3-19102
4.40	80	47	3-19102
4.50	80	47	3-19102
4.60	80	47	3-19102
4.70	80	47	3-19102
4.75	80	47	3-19102
4.80	86	52	3-19102
4.90	86	52	3-19102
5.00	86	52	3-19102
5.10	86	52	3-19102
5.20	86	52	3-19102
5.25	86	52	3-19102
5.30	86	52	3-19102
5.40	93	57	3-19102
5.50	93	57	3-19102
5.60	93	57	3-19102
5.70	93	57	3-19102
5.75	93	57	3-19102
5.80	93	57	3-19102
5.90	93	57	3-19102
6.00	93	57	3-19102
6.10	101	63	3-19102
6.20	101	63	3-19102
6.25	101	63	3-19102
6.30	101	63	3-19102
6.40	101	63	3-19102
6.50	101	63	3-19102
6.60	101	63	3-19102
6.70	101	63	3-19102
6.75	109	69	3-19102
6.80	109	69	3-19102
6.90	109	69	3-19102
7.00	109	69	3-19102
7.10	109	69	3-19102
7.20	109	69	3-19102
7.25	109	69	3-19102
7.30	109	69	3-19102
7.40	109	69	3-19102
7.50	109	69	3-19102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
7.60	117	75	3-19102
7.70	117	75	3-19102
7.75	117	75	3-19102
7.80	117	75	3-19102
7.90	117	75	3-19102
8.00	117	75	3-19102
8.10	117	75	3-19102
8.20	117	75	3-19102
8.25	117	75	3-19102
8.30	117	75	3-19102
8.40	117	75	3-19102
8.50	117	75	3-19102
8.60	125	81	3-19102
8.70	125	81	3-19102
8.75	125	81	3-19102
8.80	125	81	3-19102
8.90	125	81	3-19102
9.00	125	81	3-19102
9.10	125	81	3-19102
9.20	125	81	3-19102
9.25	125	81	3-19102
9.30	125	81	3-19102
9.40	125	81	3-19102
9.50	125	81	3-19102
9.60	125	81	3-19102
9.70	133	87	3-19102
9.75	133	87	3-19102
9.80	133	87	3-19102
9.90	133	87	3-19102
10.00	133	87	3-19102
10,10	133	87	3-19102
10.20	133	87	3-19102
10,30	133	87	3-19102
10,40	133	87	3-19102
10.50	133	87	3-19102
10,60	142	94	3-19102
10,70	142	94	3-19102
10,80	142	94	3-19102
10,90	142	94	3-19102
11.00	142	94	3-19102
11,20	142	94	3-19102
11.50	142	94	3-19102
11,80	142	94	3-19102
12.00	151	101	3-19102

Einsatzgebiete:

N und Materialien bis 700 N/mm²

Materials:

N and materials up to 700 N/mm²

witec® SPIRALBOHRER DIN 338

witec® JOBBER LENGTH MACHINE DRILLS DIN 338

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
12,20	151	101	3-19102
12,50	151	101	3-19102
12,80	151	101	3-19102
13,00	151	101	3-19102
13,50	160	108	3-19102

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
14,00	160	108	3-19102
14,50	169	114	3-19102
15,00	169	114	3-19102
15,50	178	120	3-19102
16,00	178	120	3-19102



Sätze / Sets

Ø mm	Art.-Nr.
1-10.0 x 0.5	3-19102
1-13.0 x 0.5	3-19102
1-10.5 x 0.5	3-19102
1-5.9 x 0.1	3-19102
6-10.0 x 0.1	3-19102

Depot

Ø mm	Art.-Nr.
1-13.0 x 0.5	3-19102

jeweils/each
1.0-8.0 mm
je 10 Stück/pcs
8.5-13.0 mm
je 5 Stück/pcs



Art.-Nr.: 3-19103

witec® SPIRALBOHRER DIN 340

witec® BUSHING MACHINE DRILLS DIN 340

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
0,40	30	10	3-19103
0,50	32	12	3-19103
0,60	35	15	3-19103
0,70	42	21	3-19103
0,80	46	25	3-19103
0,90	51	29	3-19103
1,00	56	33	3-19103
1,10	60	37	3-19103
1,20	65	41	3-19103
1,30	65	41	3-19103
1,40	70	45	3-19103
1,50	70	45	3-19103
1,60	76	50	3-19103
1,70	76	50	3-19103
1,80	80	53	3-19103
1,90	80	53	3-19103
2,00	85	56	3-19103
2,10	85	56	3-19103
2,20	90	59	3-19103
2,30	90	59	3-19103
2,40	95	62	3-19103
2,50	95	62	3-19103
2,60	95	62	3-19103
2,70	100	66	3-19103
2,80	100	66	3-19103
2,90	100	66	3-19103
3,00	100	66	3-19103
3,10	106	69	3-19103
3,20	106	69	3-19103
3,25	106	69	3-19103

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
3,30	106	69	3-19103
3,40	112	73	3-19103
3,50	112	73	3-19103
3,60	112	73	3-19103
3,70	112	73	3-19103
3,80	119	78	3-19103
3,90	119	78	3-19103
4,00	119	78	3-19103
4,10	119	78	3-19103
4,20	119	78	3-19103
4,25	119	78	3-19103
4,30	126	82	3-19103
4,40	126	82	3-19103
4,50	126	82	3-19103
4,60	126	82	3-19103
4,70	126	82	3-19103
4,80	132	87	3-19103
4,90	132	87	3-19103
5,00	132	87	3-19103
5,10	132	87	3-19103
5,20	132	87	3-19103
5,30	132	87	3-19103
5,40	139	91	3-19103
5,50	139	91	3-19103
5,60	139	91	3-19103
5,70	139	91	3-19103
5,80	139	91	3-19103
5,90	139	91	3-19103
6,00	139	91	3-19103
6,10	148	97	3-19103

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
6,20	148	97	3-19103
6,30	148	97	3-19103
6,40	148	97	3-19103
6,50	148	97	3-19103
6,60	148	97	3-19103
6,70	148	97	3-19103
6,80	156	102	3-19103
6,90	156	102	3-19103
7,00	156	102	3-19103
7,20	156	102	3-19103
7,50	156	102	3-19103
7,80	165	109	3-19103
8,00	165	109	3-19103
8,20	165	109	3-19103
8,50	165	109	3-19103
9,00	175	115	3-19103
9,50	175	115	3-19103
9,80	184	121	3-19103
10,00	184	121	3-19103
10,20	184	121	3-19103
10,50	184	121	3-19103
11,00	195	128	3-19103
11,50	195	128	3-19103
12,00	205	134	3-19103
12,50	205	134	3-19103
13,00	205	134	3-19103
14,00	214	140	3-19103
15,00	220	144	3-19103

Einsatzgebiete:

N und Materialien bis 700 N/mm²

Materials:

N and materials up to 700 N/mm²

witec® MK SPIRALBOHRER DIN 345

witec® MORSE TAPER SHANK MACHINE DRILLS DIN 345

DIN 345

HSS
M2

N

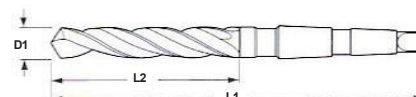
118°

GEFRÄST
MILLED

- Morsekonus
- Kegelmantelschliff
- gefräst
- außen poliert

INFOBOX

- morse taper shank
- relieved cone
- milled
- outside polished



Art.-Nr.: 3-19108

Ø D1 mm	L1 mm	L2 mm	MK	Art.-Nr.
5.00	133	52	1	3-19108
5.50	133	52	1	3-19108
6.00	138	57	1	3-19108
6,50	144	57	1	3-19108
7.00	150	69	1	3-19108
7.50	150	69	1	3-19108
8.00	156	75	1	3-19108
8.50	156	75	1	3-19108
9.00	162	81	1	3-19108
9.50	162	81	1	3-19108
10.00	168	87	1	3-19108
10.20	168	87	1	3-19108
10.50	168	87	1	3-19108
11.00	175	94	1	3-19108
11.50	175	94	1	3-19108
12.00	182	101	1	3-19108
12.50	182	101	1	3-19108
13.00	182	101	1	3-19108
13.50	189	108	1	3-19108
14.00	189	108	1	3-19108
14.50	212	114	2	3-19108
15.00	212	114	2	3-19108
15.50	218	120	2	3-19108
16.00	218	120	2	3-19108
16.50	223	125	2	3-19108
17.00	223	125	2	3-19108
17.50	228	130	2	3-19108
18.00	228	130	2	3-19108
18.50	233	135	2	3-19108
19.00	233	135	2	3-19108
19.50	238	140	2	3-19108
20.00	238	140	2	3-19108

Ø D1 mm	L1 mm	L2 mm	MK	Art.-Nr.
20.50	243	145	2	3-19108
21.00	243	145	2	3-19108
21.50	248	150	2	3-19108
22.00	248	150	2	3-19108
22.50	253	155	2	3-19108
23.00	253	155	2	3-19108
23.50	276	155	3	3-19108
24.00	281	160	3	3-19108
24.50	281	160	3	3-19108
25.00	281	160	3	3-19108
25.50	286	165	3	3-19108
26.00	286	165	3	3-19108
26.50	286	165	3	3-19108
27.00	291	170	3	3-19108
27.50	291	170	3	3-19108
28.00	291	170	3	3-19108
28.50	296	175	3	3-19108
29.00	296	175	3	3-19108
29.50	296	175	3	3-19108
30.00	296	175	3	3-19108
30.50	301	180	3	3-19108
31.00	301	180	3	3-19108
31.50	301	180	3	3-19108
32.00	334	185	4	3-19108
33.00	334	185	4	3-19108
34.00	339	190	4	3-19108
35.00	339	190	4	3-19108
36.00	344	195	4	3-19108
37.00	344	195	4	3-19108
38.00	349	200	4	3-19108
39.00	349	200	4	3-19108
40.00	349	200	4	3-19108

witec® MK SPIRALBOHRER DIN 345 witec® MORSE TAPER SHANK MACHINE DRILLS DIN 345

Ø D1 mm	L1 mm	L2 mm	MK	Art.-Nr.
41.00	354	205	4	3-19108
42.00	354	205	4	3-19108
43.00	359	210	4	3-19108
44.00	359	210	4	3-19108
45.00	359	210	4	3-19108
46.00	364	215	4	3-19108
47.00	364	215	4	3-19108
48.00	369	220	4	3-19108
49.00	369	220	4	3-19108
50.00	369	220	4	3-19108

Ø D1 mm	L1 mm	L2 mm	MK	Art.-Nr.
51.00	412	225	5	3-19108
52.00	412	225	5	3-19108
53.00	412	225	5	3-19108
54.00	417	230	5	3-19108
55.00	417	230	5	3-19108
56.00	417	230	5	3-19108
57.00	422	235	5	3-19108
58.00	422	235	5	3-19108
59.00	422	235	5	3-19108
60.00	422	235	5	3-19108

Sätze / Sets

Ø mm	Art.-Nr.
14.00-23,00mm x 1 mm + 1 Reduzierhülse MK2 zu MK1/ reducing sleeve MK2 to MK1	3-19108
14.00-30.00mm x 2 mm + 1 Reduzierhülse MK2 zu MK1/ reducing sleeve MK2 to MK1	3-19108

Einsatzgebiete:

N, W, GG (bis GG40) und Materialien bis 900 N/mm²

Materials:

N, W, GG (bis GG40) und materials up to 900 N/mm²

witec® SPIRALBOHRER LANG DIN 341

witec® HIGH SPEED MACHINE DRILLS LONG DIN 341

DIN 341

HSS
M2

N

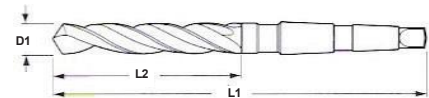
118°

GEFRÄST
MILLED

- Morsekonus
- Kegelmantelschliff
- gefräst
- außen poliert

INFOBOX

- morse taper shank
- relieved cone
- milled
- outside polished



Art.-Nr.: 3-19110

Ø D1 mm	L1 mm	L2 mm	MK	Art.-Nr.
10.00	197	115	1	3-19110
10.50	197	115	1	3-19110
11.00	206	125	1	3-19110
11.50	206	125	1	3-19110
12.00	215	134	1	3-19110
12.50	215	134	1	3-19110
13.00	215	134	1	3-19110
13.50	223	142	1	3-19110
14.00	223	142	1	3-19110
14.50	245	147	2	3-19110
15.00	245	147	2	3-19110
15.50	251	153	2	3-19110
16.00	251	153	2	3-19110
16.50	257	159	2	3-19110
17.00	257	159	2	3-19110
17.50	263	165	2	3-19110
18.00	263	165	2	3-19110
18.50	269	171	2	3-19110
19.00	269	171	2	3-19110
19.50	275	177	2	3-19110
20.00	275	177	2	3-19110
20.50	282	184	2	3-19110
21.00	282	184	2	3-19110
21.50	289	191	2	3-19110
22.00	289	191	2	3-19110
22.50	296	198	2	3-19110
23.00	296	198	2	3-19110
23.50	319	198	3	3-19110
24.00	327	206	3	3-19110

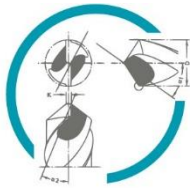
Ø D1 mm	L1 mm	L2 mm	MK	Art.-Nr.
24.50	327	206	3	3-19110
25.00	327	206	3	3-19110
25.50	335	214	3	3-19110
26.00	335	214	3	3-19110
26.50	335	214	3	3-19110
27.00	343	222	3	3-19110
27.50	343	222	3	3-19110
28.00	343	222	3	3-19110
28.50	351	230	3	3-19110
29.00	351	230	3	3-19110
29.50	351	230	3	3-19110
30.00	351	230	3	3-19110
30.50	360	239	3	3-19110
31.00	360	239	3	3-19110
31.50	360	239	3	3-19110
32.00	397	248	4	3-19110
32.50	397	248	4	3-19110
33.00	397	248	4	3-19110
33.50	397	248	4	3-19110
34.00	397	248	4	3-19110
34.50	406	257	4	3-19110
35.00	406	257	4	3-19110
35.50	406	257	4	3-19110
36.00	416	267	4	3-19110
36.50	416	267	4	3-19110
37.00	416	267	4	3-19110
37.50	426	277	4	3-19110
38.00	426	277	4	3-19110
38.50	426	277	4	3-19110

Einsatzgebiete:

N, W, GG (bis GG40) und Materialien bis 900 N/mm²

Materials:

N, W, GG (bis GG40) and materials up to 900 N/mm²



witec®
WERKZEUG- UND INDUSTRIE TECHNIK

Rista
Reparatur- und
Instandhaltung

witec® SPIRALBOHRER DIN 341 witec® HIGH SPEED MACHINE DRILLS DIN 341

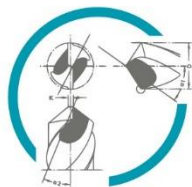
Ø D1 mm	L1 mm	L2 mm	MK	Art.-Nr.
39.00	426	277	4	3-19110
39.50	426	277	4	3-19110
40.00	426	277	4	3-19110
40.50	436	287	4	3-19110
41.00	436	287	4	3-19110
41.50	436	287	4	3-19110
42.00	436	287	4	3-19110
42.50	436	287	4	3-19110
43.00	447	298	4	3-19110
44.00	447	298	4	3-19110
45.00	447	298	4	3-19110
46.00	459	310	4	3-19110
47.00	459	310	4	3-19110
48.00	470	321	4	3-19110
49.00	470	321	4	3-19110
50.00	470	321	4	3-19110

Einsatzgebiete:

N, W, GG (bis GG40) und Materialien bis 900 N/mm²

Materials:

N, W, GG (bis GG40) and materials up to 900 N/mm²



witec[®]
WERKZEUG- UND INDUSTRIE TECHNIK

Risto
Reparatur- und
Instandhaltung

KERNBOHRER CORE DRILLS

Art.-Nr.		Seite Page
3-19224 / ATN	Kernbohrer, HSS, M2, mit Weldonschaft, kurz Core Drill, HSS, M2, with Weldon Shank, short	45
3-19223 / ATN	Kernbohrer, HSS, M2, mit Weldonschaft, lang Core Drill, HSS, M2, with Weldon Shank, long	46
3-19220 / ATN	Kernbohrer, HSS-Co 5%, M35, mit Weldonschaft, kurz Core Drill, HSS-Co 5%, M35, with Weldon Shank, short	47
3-19225 / ATN	Kernbohrer, HSS-Co 5%, M35, mit Weldonschaft, lang Core Drill, HSS-Co 5%, M35, with Weldon Shank, long	48
3-19230	Kernbohrer-Auswerfstifte Core Drill Ejector Pins	49

witec® KERNSBOHRER witec® CORE DRILLS

witec-NORM

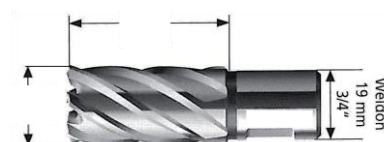
HSS
M2

Weldon
Schaft/Shank

KURZ
SHORT

- mit Weldonschaft
- blank oder ATN beschichtet
- with Weldon shank
- bright finished or ATN coated

INFOBOX



Art.-Nr.: 3-19224 / ATN

Ø D1 mm	SL mm	GL mm	Schaft mm	Art.-Nr.
12	30	55	19	3-19224 / ATN
13	30	55	19	3-19224 / ATN
14	30	55	19	3-19224 / ATN
15	30	55	19	3-19224 / ATN
16	30	55	19	3-19224 / ATN
17	30	55	19	3-19224 / ATN
18	30	55	19	3-19224 / ATN
19	30	55	19	3-19224 / ATN
20	30	55	19	3-19224 / ATN
21	30	55	19	3-19224 / ATN
22	30	55	19	3-19224 / ATN
23	30	55	19	3-19224 / ATN
24	30	55	19	3-19224 / ATN
25	30	55	19	3-19224 / ATN
26	30	55	19	3-19224 / ATN
27	30	55	19	3-19224 / ATN
28	30	55	19	3-19224 / ATN
29	30	55	19	3-19224 / ATN
30	30	55	19	3-19224 / ATN
31	30	55	19	3-19224 / ATN
32	30	55	19	3-19224 / ATN
33	30	55	19	3-19224 / ATN

Ø D1 mm	SL mm	GL mm	Schaft mm	Art.-Nr.
34	30	55	19	3-19224 / ATN
35	30	55	19	3-19224 / ATN
36	30	55	19	3-19224 / ATN
37	30	55	19	3-19224 / ATN
38	30	55	19	3-19224 / ATN
39	30	55	19	3-19224 / ATN
40	30	55	19	3-19224 / ATN
41	30	55	19	3-19224 / ATN
42	30	55	19	3-19224 / ATN
43	30	55	19	3-19224 / ATN
44	30	55	19	3-19224 / ATN
45	30	55	19	3-19224 / ATN
46	30	55	19	3-19224 / ATN
47	30	55	19	3-19224 / ATN
48	30	55	19	3-19224 / ATN
49	30	55	19	3-19224 / ATN
50	30	55	19	3-19224 / ATN
51	30	55	19	3-19224 / ATN
52	30	55	19	3-19224 / ATN
60	30	55	19	3-19224 / ATN
65	30	55	19	3-19224 / ATN
70	30	55	19	3-19224 / ATN

Sätze / Sets

Ø mm	Art.-Nr.
12-22mm 7-teilig / 7 pcs	3-19224 / ATN

Zuberhör/Accessoires

Führungsstifte für Kernbohrer mit 3/4" Weldonschaft Ejector pins for core drills with weldon shank 3/4"	Art.-Nr.
6,35 x 75 mm HSS	3-19230

witec[®] KERNBOHRER witec[®] CORE DRILLS

witec-NORM

HSS
M2

Weldon
Schaft/Shank

LANG
LONG

- mit Weldonschaft
- blank oder ATN beschichtet
- with Weldon shank
- bright finished or ATN coated

INFOBOX



Art.-Nr.: 3-19223 / ATN

Ø D1 mm	SL mm	GL mm	Schaft mm	Art.-Nr.
12	55	80	19	3-19223 / ATN
13	55	80	19	3-19223 / ATN
14	55	80	19	3-19223 / ATN
15	55	80	19	3-19223 / ATN
16	55	80	19	3-19223 / ATN
17	55	80	19	3-19223 / ATN
18	55	80	19	3-19223 / ATN
19	55	80	19	3-19223 / ATN
20	55	80	19	3-19223 / ATN
21	55	80	19	3-19223 / ATN
22	55	80	19	3-19223 / ATN
23	55	80	19	3-19223 / ATN
24	55	80	19	3-19223 / ATN
25	55	80	19	3-19223 / ATN
26	55	80	19	3-19223 / ATN
27	55	80	19	3-19223 / ATN
28	55	80	19	3-19223 / ATN
29	55	80	19	3-19223 / ATN
30	55	80	19	3-19223 / ATN

Zuberhör/Accessoires

Führungsstifte für Kernbohrer mit 3/4" Weldonschaft Ejector pins for core drills with weldon shank 3/4"	Art.-Nr.
6,35 x 100 mm HSS	3-19230

witec® KERNBOHRER witec® CORE DRILLS

witec-NORM

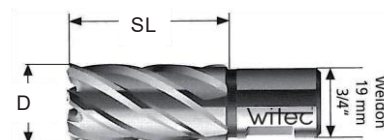
HSS-Co5%
M35

Weldon
Schaft/Shank

KURZ
SHORT

- mit Weldonschaft
- blank oder ATN beschichtet
- with Weldon shank
- bright finished or ATN coated

INFOBOX



Art.-Nr.: 3-19220 / ATN

Ø D1 mm	SL mm	GL mm	Schaft mm	Art.-Nr.
12	30	55	19	3-19220 / ATN
13	30	55	19	3-19220 / ATN
14	30	55	19	3-19220 / ATN
15	30	55	19	3-19220 / ATN
16	30	55	19	3-19220 / ATN
17	30	55	19	3-19220 / ATN
18	30	55	19	3-19220 / ATN
19	30	55	19	3-19220 / ATN
20	30	55	19	3-19220 / ATN
21	30	55	19	3-19220 / ATN
22	30	55	19	3-19220 / ATN
23	30	55	19	3-19220 / ATN
24	30	55	19	3-19220 / ATN
25	30	55	19	3-19220 / ATN
26	30	55	19	3-19220 / ATN
27	30	55	19	3-19220 / ATN
28	30	55	19	3-19220 / ATN
29	30	55	19	3-19220 / ATN
30	30	55	19	3-19220 / ATN

Sätze / Sets

Ø mm	Art.-Nr.
12-22mm 7-teilig / 7 pcs	3-19220 / ATN

Zuberhör/Accessoires

Führungsstifte für Kernbohrer mit 3/4" Weldonschaft Ejector pins for core drills with weldon shank 3/4"	Art.-Nr.
6,35 x 75 mm HSS	3-19230

witec® KERNBOHRER witec® CORE DRILLS

witec-NORM

HSS-Co5%
M35

Weldon
Schaft/Shank

LANG
LONG

- mit Weldonschaft
- blank oder ATN beschichtet
- with Weldon shank
- bright finished or ATN coated

INFOBOX



Art.-Nr.: 3-19225 / ATN

Ø D1 mm	SL mm	GL mm	Schaft mm	Art.-Nr.
12	55	80	19	3-19225 / ATN
13	55	80	19	3-19225 / ATN
14	55	80	19	3-19225 / ATN
15	55	80	19	3-19225 / ATN
16	55	80	19	3-19225 / ATN
17	55	80	19	3-19225 / ATN
18	55	80	19	3-19225 / ATN
19	55	80	19	3-19225 / ATN
20	55	80	19	3-19225 / ATN
21	55	80	19	3-19225 / ATN
22	55	80	19	3-19225 / ATN
23	55	80	19	3-19225 / ATN
24	55	80	19	3-19225 / ATN
25	55	80	19	3-19225 / ATN
26	55	80	19	3-19225 / ATN
27	55	80	19	3-19225 / ATN
28	55	80	19	3-19225 / ATN
29	55	80	19	3-19225 / ATN
30	55	80	19	3-19225 / ATN
30	55	80	19	3-19225 / ATN

Zuberhör/Accessoires

Führungsstifte für Kernbohrer mit 3/4" Weldonschaft Ejector pins for core drills with weldon shank 3/4"	Art.-Nr.
6,35 x 100 mm HSS	3-19230

witec® KERNBOHRER-AUSWERFERSTIFTE witec® CORE DRILL-EJECTOR-PINS WITEC

witec-NORM

metallisch
metallic

geschliffen
grinded

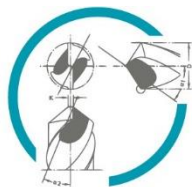
Schnitttiefe / Cutting depth
30 + 55

- INFOBOX
- für alle witec® Kernbohrer
 - Magnet-Kernbohrmaschinen, stationäre Maschinen
 - for all witec® Core Drills
 - Magnet-Kernbohrmaschinen, stationäre Maschinen



Art.-Nr.: 3-19230

Ø mm	Schnitttiefe Cutting depth	Art.-Nr.
6,35x75	30	3-19230
8,00x90	30	3-19230
6,35x100	55	3-19230



witec[®]
WERKZEUG- UND INDUSTRIE TECHNIK

Risto
Reparatur- und
Instandhaltung

HOLZBOHRER WOOD DRILLS

Art.-Nr.		Seite Page
3-18024	Holzspiralbohrer Wood Drill Bit	50
3-18025	Schlangenbohrer Form LEWIS Auger Bit LEWIS-Form	51-52
3-18026	Forstner Bohrer Forstner Bit	53
3-18028	Flachfräsbohrer Machine Flat Bit	54
3-18830	Schalungsbohrer Auger Bit	55
3-18033	Aufsteckversenker witec®-Norm 5-schneidig WS Shell drill witec®-Norm 5-cutting egdes WS	56
3-18831	Dachdeckerbohrer, HSS, NX, 130°, schwarze Ausführung, witec-Norm Hollow Section Twist Drill, HSS, NX, 130°, blackfinished, witec-Norm	57

Hinweis:

Unter unserem Markennamen **witec® TimberFlux** bieten wir hochwertige Holzbearbeitungswerkzeuge für den industriellen Einsatz an – speziell auch für den Einsatz auf CNC-Maschinen.

Note:

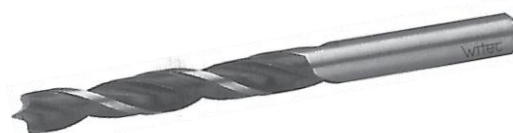
Under our brand name **witec® TimberFlux**, we offer high-quality woodworking tools for industrial applications – including those designed for use on CNC machines.

witec® HOLZSPIRALBOHRER witec® WOOD DRILL BITS

- geschliffene Zentrierspitze
- 2 Schulter-schneiden
- rechtsschneidend

INFOBOX

- ground centre-tip
- 2 shouldered cutting edge
- right hand cutting



Art.-Nr.: 3-18024

Ø mm	L1 mm	L2 mm	Art.-Nr.
3.00	61	33	3-18024
4.00	75	43	3-18024
5.00	86	52	3-18024
6.00	93	57	3-18024
7.00	109	69	3-18024
8.00	117	75	3-18024
10.00	133	87	3-18024
12.00	151	96	3-18024
14.00	151	96	3-18024
16.00	160	100	3-18024
18.00	180	120	3-18024
20.00	200	130	3-18024
22.00	210	140	3-18024
24.00	215	140	3-18024
25.00	215	140	3-18024
26.00	215	140	3-18024
28.00	220	150	3-18024
30.00	220	150	3-18024

Sätze / Sets

Ø mm	Art.-Nr.
4-5-6-8-10	3-18024
3-4-5-6-7-8-9-10	3-18024



Einsatzgebiete:

für exakte Bohrungen in Holz, Sperrholz, unbeschichtete Spanplatten

Materials:

for drilling in wood, plywood, uncoated chipboard

witec® SCHLANGENBOHRER FORM LEWIS

witec® AUGER BITS LEWIS-FORM

- Sechskant-Schaft
- gefräste und überschleifene Spirale
- selbststeinziehende Gewindespitze
- 1 Vorschneider
- spezieller Freischliff hinter dem Schneidkopf

INFOBOX

- hexagon-shank
- milled version
- self-threatening tip
- 1 cutting lip
- special step-tip



Art.-Nr.: 3-18025

Ø mm	L1 mm	L2 mm	Art.-Nr.
4.0	235	160	3-18025
6.0	235	160	3-18025
6.0	320	245	3-18025
6.0	460	385	3-18025
6.0	620	545	3-18025
7.0	235	160	3-18025
7.0	320	245	3-18025
7.0	460	385	3-18025
8.0	235	160	3-18025
8.0	320	245	3-18025
8.0	460	385	3-18025
8.0	620	545	3-18025
9.0	320	245	3-18025
9.0	460	385	3-18025
10.0	235	160	3-18025
10.0	320	245	3-18025
10.0	460	385	3-18025
10.0	620	545	3-18025
11.0	235	160	3-18025
11.0	320	245	3-18025
12.0	235	160	3-18025
12.0	320	245	3-18025
12.0	460	385	3-18025
12.0	620	545	3-18025
12.0	880	805	3-18025
14.0	235	160	3-18025
14.0	320	245	3-18025
14.0	460	385	3-18025
14.0	620	545	3-18025
14.0	880	805	3-18025
16.0	235	160	3-18025
16.0	320	245	3-18025
16.0	460	385	3-18025
16.0	620	545	3-18025
16.0	880	805	3-18025
16.0	1080	1005	3-18025

Ø mm	L1 mm	L2 mm	Art.-Nr.
18.0	235	160	3-18025
18.0	320	245	3-18025
18.0	460	385	3-18025
18.0	620	545	3-18025
18.0	880	805	3-18025
18.0	1080	1005	3-18025
20.0	235	160	3-18025
20.0	320	245	3-18025
20.0	460	385	3-18025
20.0	620	545	3-18025
20.0	880	805	3-18025
20.0	1080	1005	3-18025
22.0	235	160	3-18025
22.0	320	245	3-18025
22.0	460	385	3-18025
22.0	620	545	3-18025
22.0	880	805	3-18025
22.0	1080	1005	3-18025
24.0	235	160	3-18025
24.0	320	245	3-18025
24.0	460	385	3-18025
24.0	620	545	3-18025
24.0	880	805	3-18025
24.0	1080	1005	3-18025
26.0	235	160	3-18025
26.0	320	245	3-18025
26.0	460	385	3-18025
26.0	620	545	3-18025
26.0	880	805	3-18025
26.0	1080	1005	3-18025
28.0	235	160	3-18025
28.0	320	245	3-18025
28.0	460	385	3-18025
28.0	620	545	3-18025
28.0	880	805	3-18025
28.0	1080	1005	3-18025

witec® SCHLANGENBOHRER FORM LEWIS

witec® AUGER BITS LEWIS-FORM

- Sechskant-Schaft
 - gefräste und überschleifene Spirale
 - selbststeinziehende Gewindespitze
 - 1 Vorschneider
 - spezieller Freischliff hinter dem Schneidkopf
-
- hexagon-shank
 - milled version
 - self-threatening tip
 - 1 cutting lip
 - special step-tip

INFOBOX



Art.-Nr.: 3-18025

Ø mm	L1 mm	L2 mm	Art.-Nr.
30.0	235	160	3-18025
30.0	320	245	3-18025
30.0	460	385	3-18025
30.0	620	545	3-18025
30.0	880	805	3-18025
30.0	1080	1005	3-18025
32.0	235	160	3-18025
32.0	320	245	3-18025
32.0	460	385	3-18025
32.0	620	545	3-18025
32.0	880	805	3-18025
32.0	1080	1005	3-18025
34.0	235	160	3-18025
34.0	320	245	3-18025
34.0	460	385	3-18025
34.0	620	545	3-18025
34.0	880	805	3-18025
34.0	1080	1005	3-18025

Ø mm	L1 mm	L2 mm	Art.-Nr.
36.0	235	160	3-18025
36.0	320	245	3-18025
36.0	460	385	3-18025
36.0	620	545	3-18025
36.0	880	805	3-18025
36.0	1080	1005	3-18025
38.0	235	160	3-18025
38.0	320	245	3-18025
38.0	460	385	3-18025
38.0	620	545	3-18025
38.0	880	805	3-18025
38.0	1080	1005	3-18025
40.0	235	160	3-18025
40.0	320	245	3-18025
40.0	460	385	3-18025
40.0	620	545	3-18025
40.0	880	805	3-18025
40.0	1080	1005	3-18025

Sätze / Sets

Ø mm	Art.-Nr.
6/8/10/12/14/16/18/20x235	3-18025
10/12/14/16/18/20x460	3-18025



Einsatzgebiete:

Punktgenaues Bohren mit sehr guter Spanabfuhr, für Weich- und die meisten Harthölzer geeignet. Durch den speziellen Freischliff auch zum Bohren in feuchtem Holz geeignet.

Materials:

Exact drilling with excellent chip removal in soft- and most hard-woods. Due to special „step-tip“ also for drilling in wet wood.

witec® FORSTNER BOHRER witec® FORSTNER BITS

- Zentrierspitze
- 2 Hauptschneiden
- 1 geschlossene Umfangschneide
- Sechskant-Schaft
- rechtsschneidend
- geschmiedete Ausführung

INFOBOX

- centre-point
- 2 cutting edges
- 1 circumferential cutting blade
- hexagon shank
- right hand cutting
- forged version



Art.-Nr.: 3-18026

Sätze / Sets

Ø mm	Art.-Nr.
10.00	3-18026
12.00	3-18026
14.00	3-18026
15.00	3-18026
16.00	3-18026
18.00	3-18026
20.00	3-18026
22.00	3-18026
24.00	3-18026
25.00	3-18026
26.00	3-18026
28.00	3-18026
30.00	3-18026
32.00	3-18026
34.00	3-18026
35.00	3-18026
36.00	3-18026
38.00	3-18026
40.00	3-18026
45.00	3-18026
50.00	3-18026

Ø mm	Art.-Nr.
15-20-25-30-35	3-18026



Einsatzgebiete:

zum punktgenauen und ausrißfreien Bohren von Weichholzlöchern, Leimbindern, etc.

Materials:

for exact and splinterfree holes in wood, veneered wooden boards, etc.

witec® FLACHFRÄSBOHRER witec® MACHINE FLAT BITS

- geschliffene Ausführung
- Zentrierspitze
- 2 Schneiden auf jeder Seite
- Sechskant-Schaft
- aus gehärtetem Werkzeugstahl
- brüniert und am Schaft blank poliert

INFOBOX

- ground version
- centre tip
- 2 cutting-edges on both sides
- hexagon-shank
- made of special tempered steel
- burnished and partly polished



Art.-Nr.: 3-18028

Ø D1 mm	L1 mm	Art.-Nr.
6.00	150	3-18028
6.50	150	3-18028
8.00	150	3-18028
10.00	150	3-18028
11.00	150	3-18028
12.00	150	3-18028
13.00	150	3-18028
14.00	150	3-18028
16.00	150	3-18028
18.00	150	3-18028
19.00	150	3-18028
20.00	150	3-18028
22.00	160	3-18028
24.00	160	3-18028
25.00	160	3-18028
26.00	160	3-18028
28.00	160	3-18028
30.00	160	3-18028
32.00	160	3-18028
34.00	160	3-18028
35.00	160	3-18028
36.00	160	3-18028
38.00	160	3-18028
40.00	160	3-18028
Verlängerung Extension sleeves	300	3-18028

Einsatzgebiete:

für Bohrungen in Weichholz, Balken und Spanplatten

Materials:

for drilling in soft-wood, beams and chip-boards

witec® SCHALUNGSBOHRER witec® AUGER BITS

- Zylinderschaft
- optimale Rundlaufgenauigkeit
- hohe Haltbarkeit
- garantierte Bruchsicherheit
- schnelle Spanabfuhr
- abgesetzter Schaft

INFOBOX

- straight shank
- perfect concentricity
- higher durability
- guaranteed break resistance
- optimal chip removal
- reduced shank



Art.-Nr.: 3-18830

Ø mm	L1 mm	L2 mm	Art.-Nr.
6,00	400	5	3-18830
6,00	600	5	3-18830
8,00	400	6	3-18830
8,00	600	6	3-18830
10,00	400	8	3-18830
10,00	600	8	3-18830
10,00	800	8	3-18830
12,00	400	8	3-18830
12,00	600	8	3-18830
12,00	800	8	3-18830
14,00	400	8	3-18830
14,00	600	8	3-18830
14,00	800	8	3-18830
16,00	400	10	3-18830
16,00	600	10	3-18830
16,00	800	10	3-18830

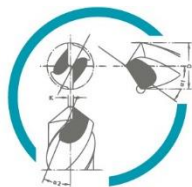
Ø mm	L1 mm	L2 mm	Art.-Nr.
18,00	400	10	3-18830
18,00	600	10	3-18830
18,00	800	10	3-18830
20,00	400	10	3-18830
20,00	600	10	3-18830
20,00	800	10	3-18830
22,00	400	10	3-18830
22,00	600	10	3-18830
24,00	400	11	3-18830
24,00	600	11	3-18830
26,00	400	11	3-18830
26,00	600	11	3-18830
28,00	400	11	3-18830
28,00	600	11	3-18830
30,00	400	11	3-18830
30,00	600	11	3-18830

Einsatzgebiete:

zum Bohren von Schalungen, Balken, Dielen, Gips- und Leichtbauplatten

Materials:

designed for drilling inner and outer covering boards in one operation, also for beams, hard-board etc.



witec®
WERKZEUG- UND INDUSTRIE TECHNIK

Rista
Reparatur- und
Instandhaltung

witec® AUFSTECKVERSENKER 5-SCHNEIDIG WS

witec® SHELL DRILL 5-CUTTING EGDES WS

witec-NORM

WS

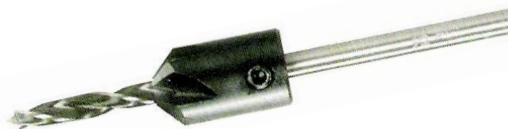
5-schneidig
5-cutting edges

Bohren und Ansenken
Drilling and countersinking

GESCHLIFFEN
GRINDED

INFOBOX

- Bohren und Ansenken in einem Arbeitsgang
- Versenker aufsteckbar auf Holz-Spiralbohrer
- Verwendbar auch als Tiefenstopp.
- Einzelverpackung mit PVC- Tüte mit Aufhänger
- Drilling and countersinking in wood in one operation
- Countersink can be attached to wood working drill
- ans also be used as a drilling depth stop.
- Single pack in a plastic bag with hanger



Art.-Nr.: 3-18033

Ø D1 mm	D2 mm	L1 mm	Art.-Nr.
3,00	12	25	3-18033
4,00	13	25	3-18033
5,00	12	25	3-18033
6,00	12	25	3-18033
8,00	16	25	3-18033
10,00	16	25	3-18033

Einsatzgebiete:

Bohren und Senken in Holzwerkstoffe

Application:

drilling and coutersinking in wood materials

witec® DACHDECKERBOHRER witec® HOLLOW SECTION TWIST DRILLS

witec-NORM

HSS
M2

NX

130°

GESCHLIFFEN
GRINDED

- 130° Kreuzanschliff
- schwarze Ausführung
- Zylinderschaft
- Rechtsschneidend
- profilgeschliffene Qualität

INFOBOX

- 130° splitpoint
- black finished
- straight shank
- right-hand cutting
- profile ground quality



Art.-Nr.: 3-18831

Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
3,00	100	30	3-18831
4,90	70	30	3-18831
4,90	100	30	3-18831
4,90	120	30	3-18831
4,90	150	30	3-18831
5,00	70	30	3-18831
5,00	100	30	3-18831
5,00	120	30	3-18831
5,00	150	30	3-18831
5,00	180	30	3-18831
5,00	210	30	3-18831
5,10	70	30	3-18831
5,10	100	30	3-18831
5,10	120	30	3-18831
5,10	150	30	3-18831
5,10	180	30	3-18831
5,10	210	30	3-18831
5,30	70	30	3-18831
5,30	100	30	3-18831
5,30	120	30	3-18831
5,30	150	30	3-18831

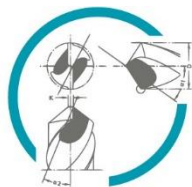
Ø D1 mm	L1 mm	L2 mm	Art.-Nr.
5,30	180	30	3-18831
5,30	210	30	3-18831
5,50	70	30	3-18831
5,50	100	30	3-18831
5,50	120	30	3-18831
5,50	150	30	3-18831
5,50	180	30	3-18831
5,50	210	30	3-18831
5,70	70	30	3-18831
5,70	100	30	3-18831
5,70	120	30	3-18831
5,70	150	30	3-18831
5,70	180	30	3-18831
5,70	210	30	3-18831
5,80	70	30	3-18831
5,80	100	30	3-18831
5,80	120	30	3-18831
5,80	150	30	3-18831
5,80	180	30	3-18831
5,80	210	30	3-18831
5,80	240	30	3-18831

Einsatzgebiete:

Spezialbohrer für die Bearbeitung und Anbringung von Hohlprofilen, z.B. im Fensterbau

Materials:

special drills designed for working on Hollow-Profiles



witec[®]
WERKZEUG- UND INDUSTRIE TECHNIK

Rista
Reparatur- und
Instandhaltung

LOCHSÄGEN
HOLESAWS

Art.-Nr.		Seite Page
3-18720	Bi-Metall Lochsäge HSS (M2) Bi-Metal Hole Saw HSS (M2)	58
3-18721	Bi-Metall Lochsäge HSS-Co8%(M42) Bi-Metal Hole Saw HSS-Co(M42)	59 – 60
3-18726	HM-bestückte Lochsäge, Tiefschnitt-Ausführung, Schnitttiefe 35mm und 60mm Carbide tipped Hole Saw, deep cut version, cutting depth 35mm und 60mm	61
3-18723	Zubehör Zentrierbohrer, Halter, Verlängerung, Aufsteckadapter, Auswurffeder	62

witec® BI-METALL LOCHSÄGEN HSS (M2)

witec® BI-METAL HOLE SAWS HSS (M2)

- HSS-Zahnschneiden auf Körper aus Spezialstahl aufgeschweißt
- mit variabler Zahnteilung für geringe Vibration, gleichmäßigen Schnitt und geringe Wärmeentwicklung
- Schnitttiefe 38 mm

INFOBOX

- HSS-cutting teeth welded on special-steel body
- cutting teeth variable pitched for less vibration, smoother cutting and less heat production during cutting
- cutting depth 38 mm



Art.-Nr.: 3-18720

Lochsägensätze auf Anfrage lieferbar.
Hole Saws sets available on request.

Ø mm	Ø "	Art.-Nr.	Ø mm	Ø "	Art.-Nr.
14,00	9/16	3-18720	57,00	2 1/4	3-18720
16,00	5/8	3-18720	59,00	2 5/16	3-18720
17,00	11/16	3-18720	60,00	2 3/8	3-18720
19,00	3/4	3-18720	64,00	2 1/2	3-18720
20,00	-	3-18720	65,00	2 9/16	3-18720
21,00	13/16	3-18720	67,00	2 5/8	3-18720
22,00	7/8	3-18720	68,00	2 11/16	3-18720
24,00	15/16	3-18720	70,00	2 3/4	3-18720
25,00	1	3-18720	73,00	2 7/8	3-18720
27,00	-	3-18720	75,00	-	3-18720
29,00	-	3-18720	76,00	3	3-18720
30,00	1 3/16	3-18720	79,00	3 1/8	3-18720
32,00	1 1/4	3-18720	83,00	3 1/4	3-18720
33,00	1 5/16	3-18720	86,00	3 3/8	3-18720
35,00	1 3/8	3-18720	89,00	3 1/2	3-18720
37,00	1 7/16	3-18720	92,00	3 5/8	3-18720
38,00	1 1/2	3-18720	95,00	3 3/4	3-18720
40,00	1 9/16	3-18720	98,00	3 7/8	3-18720
41,00	1 5/8	3-18720	100,00	3 15/16	3-18720
43,00	1 11/16	3-18720	102,00	4	3-18720
44,00	1 3/4	3-18720	105,00	4 1/8	3-18720
45,00	-	3-18720	108,00	4 1/4	3-18720
46,00	1 13/16	3-18720	111,00	4 3/8	3-18720
48,00	1 7/8	3-18720	114,00	4 1/2	3-18720
50,00	1 31/32	3-18720	121,00	4 3/4	3-18720
51,00	2	3-18720	127,00	5	3-18720
52,00	2 1/16	3-18720	140,00	5 1/2	3-18720
54,00	2 1/8	3-18720	146,00	5 3/4	3-18720
55,00	-	3-18720	152,00	6	3-18720

Zubehör/Accessoires

Aufnahmeschäfte incl. Zentrierbohrer Arbors incl. pilot-drills	Art.-Nr.
Schaft/Shank A 5519, 9,5 mm	3-18723
Ø-Bereich 13-30 mm	3-18723
Schaft/Shank A 5545 11,11 mm	3-18723
Ø-Bereich 32-152 mm	3-18723
SDS-Schaft/Shank A5576 13-30 mm	3-18723
SDS-Schaft/Shank A5577 32-152 mm	3-18723

Zubehör/Accessoires

Zentrierbohrer Pilot-drills	Art.-Nr.
Nr. / no. 8536	
6,35 x 71 mm HSS	3-18723

Zubehör/Accessoires

Beschreibung Description	Art.-Nr.
Verlängerungen/Extensions for Arbors	
Schaftlänge/Shank length 300 mm	3-18723

Einsatzgebiete:

stabile Konstruktion zum Bohren von Blech, Leichtmetall, Kunststoff, Gipskarton, Holzverkleidungen etc.
mit Säulen- und Handbohrmaschinen

Materials:

solid construction for drilling sheet metal, aluminium, plastic, wood, plywood, plasticboards etc.

witec® BI-METALL LOCHSÄGEN VARIO HSS-Co8%(M42)

witec® BI-METAL HOLE SAWS VARIO HSS-Co8%(M42)

- HSS-Co8%(M42)-Zahnschneiden auf Körper aus Spezialstahl aufgeschweißt
- mit variabler Zahnteilung für schnellen Sägefortschritt und ratterfreies Sägen
- Arbeitstiefe 5 mm, über 5 mm mit Lüftung
- HSS-Co8%(M42)-cutting teeth welded on special-steel body
- cutting teeth variable pitched for rapid sawing process and reduced vibration
- working depth 5 mm, over 5 mm with ventilation

INFOBOX

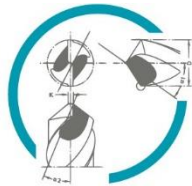


Art.-Nr.: 3-18721

Lochsägensätze auf Anfrage lieferbar.
Hole Saws sets available on request.

Ø mm	Zoll "	Art.-Nr.
14,00	9/16	3-18721
16,00	5/8	3-18721
17,00	11/16	3-18721
19,00	3/4	3-18721
20,00	25/32	3-18721
21,00	13/16	3-18721
22,00	7/8	3-18721
24,00	15/16	3-18721
25,00	1"	3-18721
27,00	1 1/16	3-18721
29,00	1 1/8	3-18721
30,00	1 3/16	3-18721
32,00	1 1/4	3-18721
33,00	1 5/16	3-18721
35,00	1 3/8	3-18721
37,00	1 7/16	3-18721
38,00	1 1/2	3-18721
40,00	1 9/16	3-18721
41,00	1 5/8	3-18721
43,00	1 11/16	3-18721
44,00	1 3/4	3-18721
45,00	-	3-18721
46,00	1 13/16	3-18721
48,00	1 7/8	3-18721
50,00	1 31/32	3-18721
51,00	2"	3-18721
52,00	2 1/16	3-18721
54,00	2 1/8	3-18721
55,00	-	3-18721
57,00	2 1/4	3-18721
59,00	2 5/16	3-18721

Ø mm	Zoll "	Art.-Nr.
60,00	2 3/8	3-18721
64,00	2 1/2	3-18721
65,00	2 9/16	3-18721
67,00	2 5/8	3-18721
68,00	2 11/16	3-18721
70,00	2 3/4	3-18721
73,00	2 7/8	3-18721
75,00	-	3-18721
76,00	3"	3-18721
79,00	3 1/8	3-18721
83,00	3 1/4	3-18721
86,00	3 3/8	3-18721
89,00	3 1/2	3-18721
92,00	3 5/8	3-18721
95,00	3 3/4	3-18721
98,00	3 7/8	3-18721
100,00	3 15/16	3-18721
102,00	4"	3-18721
105,00	4 1/8	3-18721
108,00	4 1/4	3-18721
111,00	4 3/8	3-18721
114,00	4 1/2	3-18721
121,00	4 3/4	3-18721
127,00	5"	3-18721
140,00	5 1/2	3-18721
146,00	5 3/4	3-18721
152,00	6	3-18721
160,00	6 19/64	3-18721
168,00	6 5/8	3-18721
177,00	7	3-18721
210,00	8 1/4	3-18721



witec®
WERKZEUG- UND INDUSTRIE TECHNIK

Risto
Reparatur- und
Instandhaltung

witec® BI-METALL LOCHSÄGEN VARIO HSS-Co8%(M42) witec® BI-METAL HOLE SAWS VARIO HSS-Co8%(M42)

Zubehör/Accessoires

Ø mm	L1 mm	U/RPM min Stahl Steel	U/RPM min VA Inox	U/RPM min ALU ALU	Art.-Nr.
152	6	55	25	75	3-18723
160	6 19/64	50	23	69	3-18723
168	6 5/8	47	22	66	3-18723
177	7	45	21	63	3-18723
210	8 1/4	38	18	53	3-18723

Aufnahmeschäfte incl. Zentrierbohrer Arbors incl. pilot-drills	Art.-Nr.
Schaft/Shank 9,5 mm	3-18723
SDS-Schaft/Shank	3-18723
Ø-Bereich 14-30 mm	3-18723
Schaft/Shank 11,11 mm	3-18723
SDS-Schaft/Shank	3-18723
Ø-Bereich 32-250 mm	3-18723

Zubehör/Accessoires

Beschreibung Description	Art.-Nr.
Ersatz-Auswurfeder/Replacement ejector spring	
Verlängerungen/Extensions for Arbors	
Schaftlänge/shank length	
11x300 mm	3-18723

Zubehör/Accessoires

Zentrierbohrer Pilot-drills	Art.-Nr.
6,35 x 82 mm HSS	3-18723

Lochsägensätze auf Anfrage lieferbar.
Hole Saws sets available on request.

witec® HM-BESTÜCKTE LOCHSÄGEN witec® CARBIDE TIPPED HOLE SAWS

- Flach und Tiefschnitt-Ausführung für Metallbearbeitung
- Zentrierbohrer und Auswurfeder auswechselbar
- flat and deepcut version for metal working
- centre drill and ejection spring replaceable

INFOBOX



Art.-Nr.: 3-18726

Ø D1 mm	Z teeth	Schnitttiefe cutting depth	Art.-Nr.
16,00	3	35	3-18726
17,00	3	35	3-18726
18,00	3	35	3-18726
19,00	3	35	3-18726
20,00	4	35	3-18726
21,00	4	35	3-18726
22,00	5	35	3-18726
23,00	5	35	3-18726
24,00	5	35	3-18726
25,00	5	35	3-18726
26,00	5	35	3-18726
27,00	5	35	3-18726
28,00	5	35	3-18726
30,00	6	35	3-18726
31,00	6	35	3-18726
32,00	6	35	3-18726
33,00	7	35	3-18726
34,00	7	35	3-18726
35,00	7	35	3-18726
36,00	7	35	3-18726
37,00	8	35	3-18726
38,00	8	35	3-18726
40,00	8	35	3-18726
42,00	9	35	3-18726
45,00	9	35	3-18726
47,00	10	35	3-18726
48,00	10	35	3-18726
50,00	11	35	3-18726
51,00	11	35	3-18726
52,00	11	35	3-18726
54,00	11	35	3-18726
55,00	12	35	3-18726
57,00	12	35	3-18726
58,00	12	35	3-18726

Ø D1 mm	Z teeth	Schnitttiefe cutting depth	Art.-Nr.
59,00	13	35	3-18726
60,00	13	35	3-18726
62,00	13	60	3-18726
65,00	14	60	3-18726
68,00	15	60	3-18726
70,00	15	60	3-18726
73,00	16	60	3-18726
76,00	16	60	3-18726
78,00	16	60	3-18726
80,00	17	60	3-18726
82,00	17	60	3-18726
83,00	17	60	3-18726
90,00	19	60	3-18726
95,00	19	60	3-18726
100,00	20	60	3-18726
105,00	20	60	3-18726
110,00	20	60	3-18726
115,00	23	60	3-18726
120,00	23	60	3-18726
125,00	23	60	3-18726
130,00	23	60	3-18726
135,00	23	60	3-18726
140,00	25	60	3-18726
145,00	25	60	3-18726
150,00	25	60	3-18726

Einsatzgebiete:

unlegierte Stähle, Aluminium, NE-Metalle, Kunststoffe usw.

Materials:

unalloyed steels, Aluminium, NE-metals, plastics, etc.

ZUBEHÖR FÜR BI-METALL LOCHSÄGE witec-Norm Accessories for BI-Metal hoe saws witec-Norm

Art.-Nr.: 3-18723

Ø D1 mm	Art.-Nr.	
Pilot 6,35x75mm	3-18723	
Pilot 6,35x105mm	3-18723	
Halter / Holder 9,5 14-30mm	3-18723	
Halter / Holder 9,5 32-210mm	3-18723	
Halter / Holder 11 14-30mm	3-18723	
Halter / Holder 11 32-210mm	3-18723	
Halter / Holder 1/4" 14-30mm	3-18723	
Halter / Holder SDS 14-30mm	3-18723	
Halter / Holder SDS 32-210mm	3-18723	
Verlängerung / Extension 11x300mm	3-18723	
Aufsteckadapter Plug-in-adapter	3-18723	
Auswurfeder Ejection spring	3-18723	

witec® BI-METALL LOCHSÄGEN HSS-Co(M42)/HM

witec® BI-METAL HOLE SAWS HSS-Co (M42) /HM

ANWENDUNGSMATRIX

APPLICATION TABLE

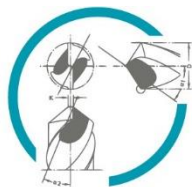
Materialien Materials		Lochsägen M42 HSS-Co8%	HM Bestückte Lochsägen Hole Saws
Materialstärke Material thickness	< 3 mm	√	√
	3 - 8 mm	√	√
	> 8 mm	√	√
Stahl / Steel			
Stahl	Steel	√	○
VA	Inox	√	○
GG (G)	Grey Cast	√	○
ALU NE-Metalle	Aluminium non-ferrous metals	√	○
Stein / Stone			
Fliessen bis Härte 6	Tile walls up to 6 mm thickness	○	√
Gips Zellenbeton	Gypsum Cellular Concrete	○	√
Mauerwerk	Masonry	○	√
Kunststoffe / Plastics			
PVC	PVC	√	√
Nylon	Nylon	○	√
Trespa	Trespa	○	√
Glasfaser	Glass fiber	○	√
Laminate	Laminate	○	√
Holz / Wood			
gepresstes Holz	Pressed Wood	○	√
Spanplatten	Chipboard	○	√
MDF	MDF	○	√
Hartholz	Hardwood	○	√
Bodenbeläge	Flooring	○	√

BI-METALL LOCHSÄGEN HSS-Co/HM BI-METAL HOLE SAWS HSS-Co/HM

**VERGLEICHSTABELLE
COMPARATIVE TABLE**

HRC Rockwell	HV Vickers	HB Brinell	N/mm²
68	940		
67	900		
66	865		
65	832		
64	800		
63	772		
62	746		
61	720		
60	697		
59	674		
58	653	615	
57	633	595	
56	613	577	
55	595	560	2075
54	577	543	2015
53	560	525	1950
52	544	512	1880
51	528	496	1820
50	513	481	1760
49	498	469	1695
48	484	455	1635
47	471	443	1580
46	458	432	1530
45	446	431	1480
44	436	409	1435
43	423	400	1385
42	412	390	1340
41	402	381	1295
40	392	371	1250
39	382	362	1215

HRC Rockwell	HV Vickers	HB Brinell	N/mm²
38	372	353	1180
37	363	344	1160
36	354	336	1115
35	345	327	1080
34	336	319	1055
33	327	311	1025
32	318	301	1000
31	310	294	980
30	302	286	950
29	294	279	930
28	286	271	910
27	279	264	880
26	272	258	860
25	266	253	840
24	260	247	825
23	254	243	805
22	248	237	785
21	243	231	770
20	238	226	760
(18)	230	219	730
(16)	222	212	705
(14)	213	203	675
(12)	204	194	650
(10)	196	187	620
(8)	188	179	600
(6)	180	171	580
(4)	173	165	550
(2)	166	158	530
(0)	160	152	515



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WERKZEUG- UND INDUSTRIE TECHNIK

Risto
Reparatur- und
Instandhaltung

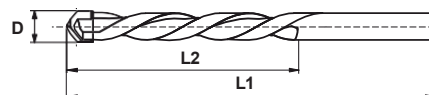
BETON- UND STEINBOHRER MASONRY AND CONCRETE DRILLS

Art.-Nr.		Seite Page
3-18020	Beton- und Steinbohrer, zylindrisch, DIN 8039 Masonry Drill, cylindrical, DIN 8039	65
3-18022	Mehrbereichssteinbohrer Multipurpose Masonry Drill	66
3-18027	Mehrbereich-Steinbohrer mit HM-Zentrierspitze Multipurpose-Masonry with Solid Carbide-Centre Point	67
3-18320	Hammerbohrer SDS-Plus MS5 mit 2-Schneiden Hammer drill bit SDS-Plus MS5 with 2 Cutters	68 – 69
3-18321	Hammerbohrer SDS-Plus mit 2-Schneiden Hammer drill bit SDS-Plus with 2 Cutters	70 – 71
3-18322R	Hammerbohrer SDS-Plus mit HM-Spitze, 4 cutter sytem Hammer Drill SDS-Plus with Solid carbide-tip,4 cutter system	72
3-18820	Hammerbohrer SDS-Max W2 X-Form 2-Schneiden Hammer Drill SDS-Max X-Form 2-Cutters	73
3-18822	Hammerbohrer, SDS-max, HM-Spitze,Zentrierspitze, 4 Schneiden Hammer drill, SDS-max, carbide tipped, centre point, 4 cutters	74 – 75
3-18400	Meißel SDS-Plus, SDS-Max und SDS-top Chisel SDS-Plus, SDS-Max and SDS-top	76
3-19922	Glasbohrer Glass Drill Bit	77

witec® BETON- UND STEINBOHRER DIN 8039 witec® MASONRY DRILLS DIN 8039

- mit HM-Platte
- Spitzenwinkel
- carbide-plate
- point angle

INFOBOX



Art.-Nr.: 3-18020

Ø D mm	Ø Zoll "	L1 mm	Art.-Nr.
3.0	1/8	60	3-18020
4.0	5/32	75	3-18020
5.0	3/16	85	3-18020
5.0	3/16	200	3-18020
6.0	15/64	100	3-18020
6.0	15/64	200	3-18020
6.0	15/64	400	3-18020
7.0	9/32	100	3-18020
8.0	5/16	120	3-18020
8.0	5/16	200	3-18020
8.0	5/16	400	3-18020
8.0	5/16	600	3-18020
9.0	11/32	120	3-18020
10.0	3/8	120	3-18020
10.0	3/8	200	3-18020
10.0	3/8	400	3-18020
10.0	3/8	600	3-18020
11.0	13/32	120	3-18020
12.0	15/32	150	3-18020
12.0	15/32	200	3-18020
12.0	15/32	400	3-18020

Ø D mm	Ø Zoll "	L1 mm	Art.-Nr.
12.0	15/32	600	3-18020
13.0	1/2	150	3-18020
14.0	9/16	150	3-18020
14.0	9/16	200	3-18020
14.0	9/16	400	3-18020
14.0	9/16	600	3-18020
15.0	19/32	150	3-18020
16.0	5/8	160	3-18020
16.0	5/8	400	3-18020
16.0	5/8	600	3-18020
17.0	21/32	160	3-18020
18.0	11/16	160	3-18020
18.0	11/16	400	3-18020
18.0	11/16	600	3-18020
19.0	23/32	160	3-18020
20.0	25/32	160	3-18020
20.0	25/32	400	3-18020
20.0	25/32	600	3-18020
22.0	27/32	160	3-18020
25.0	31/32	160	3-18020

Sätze / Sets

Ø mm	Art.-Nr.
Kombidose / Combi box 3,00-10,00 mm	3-18020
4,0 - 5,0 - 6,0 - 8,0 - 10 mm	3-18020
3,0 - 4,0 - 5,0 - 6,0 - 7,0 - 8,0 - 9,0 - 10,0 mm	3-18020



Einsatzgebiete:

für leichte Bohrarbeiten in Dreh- und Schlagbohrmaschinen, besonders für den Heimwerkerbereich

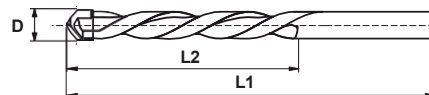
Materials:

for ordinary drilling in impact drilling-machines, mainly for DIY purpose

witec® UNIVERSALBOHRER witec® MULTIPURPOSE DRILLS

- Hartmetallplatte mit spezieller Schneidengeometrie für den universellen Einsatz
- mit Zylinderschaft
- carbide-tip with special cutting edge geometry for drilling in various materials
- with straight shank

INFOBOX



Art.-Nr.: 3-18022

Sätze / Sets

Ø D mm	Ø Zoll "	L1 mm	L2 mm	Art.-Nr.
3,0	1/8	60	30	3-18022
4,0	5/32	75	39	3-18022
5,0	3/16	85	39	3-18022
6,0	15/64	100	54	3-18022
7,0	9/32	100	54	3-18022
8,0	5/16	120	80	3-18022
10,0	3/8	120	80	3-18022
12,0	15/32	150	85	3-18022
14,0	9/16	150	85	3-18022
16,0	5/8	400	300	3-18022

Ø mm	Art.-Nr.
4 - 5 - 6 - 8 - 10 mm	3-18022
5 - 6 - 8 mm	3-18022



Einsatzgebiete:

für moderne leichte Baustoffe wie z.B. Gasbeton, Gipskarton

Materials:

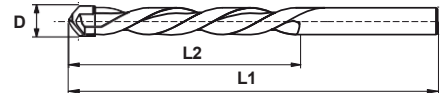
designed to drill in various modern light building materials like aerated concrete, insulation materials, concrete, metal, wood and plastics

witec® MEHRBEREICH-STEINBOHRER MIT HM-ZENTRIERSPITZE

witec® MULTIPURPOSE - MASONRY DRILL WITH SOLID CARBIDE - CENTRE POINT

- Hartmetallplatte mit spezieller Schneidengeometrie für den universellen Einsatz
- mit Zylinderschaft
- carbide-tip with special cutting edge geometry for drilling in various materials
- with straight shank

INFOBOX



Art.-Nr.: 3-18027

Sätze / Sets

Ø D mm	Ø Zoll "	L1 mm	L2 mm	Art.-Nr.
5,0	3/16	85	39	3-18027
6,0	15/64	100	54	3-18027
8,0	5/16	120	80	3-18027
10,0	3/8	120	135	3-18027
12,0	15/32	150	85	3-18027

Ø mm	Art.-Nr.
5 - 6 - 8 - 10 mm	3-18027



Einsatzgebiete:

für moderne leichte Baustoffe wie z.B. Gasbeton, Gipskarton

Materials:

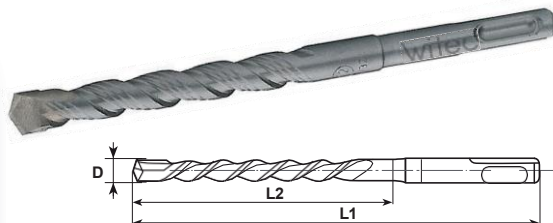
designed to drill in various modern light building materials like aerated concrete, insulation materials, concrete, metal, wood and plastics

witec® HAMMERBOHRER SDS-PLUS witec® HAMMER DRILLS SDS-PLUS

- mit besonders harter HM-Platte
- mit Zentrierspitze
- Spirale zur optimalen Bohrmehlförderung

INFOBOX

- with even harder carbide-quality
- with special centering-tip
- Helix for optimal chip evacuation



Art.-Nr.: 3-18320

Ø D mm	Ø Zoll "	L1 mm	L2 mm	Art.-Nr.
3,0	1/8	110	50	3-18320
4,0	5/32	110	50	3-18320
4,0	5/32	160	100	3-18320
5,0	3/16	110	50	3-18320
5,0	3/16	160	100	3-18320
5,0	3/16	210	150	3-18320
5,0	3/16	260	200	3-18320
5,0	3/16	310	250	3-18320
5,0	3/16	360	310	3-18320
5,0	3/16	460	400	3-18320
5,5	7/32	110	50	3-18320
5,5	7/32	160	100	3-18320
5,5	7/32	210	150	3-18320
5,5	7/32	260	200	3-18320
5,5	7/32	310	250	3-18320
5,5	7/32	410	350	3-18320
6,0	15/64	110	50	3-18320
6,0	15/64	160	100	3-18320
6,0	15/64	210	150	3-18320
6,0	15/64	260	200	3-18320
6,0	15/64	310	250	3-18320
6,0	15/64	160	400	3-18320
6,5	1/4	110	50	3-18320
6,5	1/4	160	100	3-18320
6,5	1/4	210	150	3-18320
6,5	1/4	260	200	3-18320
6,5	1/4	310	250	3-18320
6,5	1/4	460	400	3-18320
7,0	9/32	110	50	3-18320
7,0	9/32	160	100	3-18320
7,0	9/32	210	150	3-18320
7,0	9/32	260	200	3-18320
8,0	5/16	110	50	3-18320
8,0	5/16	160	100	3-18320
8,0	5/16	210	150	3-18320
8,0	5/16	260	200	3-18320
8,0	5/16	460	400	3-18320

Ø D mm	Ø Zoll "	L1 mm	L2 mm	Art.-Nr.
8,0	5/16	600	540	3-18320
8,0	5/16	1000	940	3-18320
8,5		210	150	3-18320
9,0	11/32	160	100	3-18320
9,0	11/32		150	3-18320
10,0	3/8	110	50	3-18320
10,0	3/8	160	100	3-18320
10,0	3/8	210	150	3-18320
10,0	3/8	260	200	3-18320
10,0	3/8	310	250	3-18320
10,0	3/8	350	300	3-18320
10,0	3/8	450	400	3-18320
10,0	3/8	600	450	3-18320
10,0	3/8	800	750	3-18320
10,0	3/8	1000	940	3-18320
11,0	13/32	310	250	3-18320
12,0	15/32	160	100	3-18320
12,0	15/32	210	150	3-18320
12,0	15/32	260	200	3-18320
12,0	15/32	310	250	3-18320
12,0	15/32	360	310	3-18320
12,0	15/32	450	400	3-18320
12,0	15/32	600	540	3-18320
12,0	15/32	1000	950	3-18320
14,0	9/16	160	100	3-18320
14,0	9/16	210	150	3-18320
14,0	9/16	260	200	3-18320
14,0	9/16	310	250	3-18320
14,0	9/16	450	400	3-18320
14,0	9/16	600	550	3-18320
14,0	9/16	1000	950	3-18320
16,0	5/8	160	100	3-18320
16,0	5/8	210	150	3-18320
16,0	5/8	260	200	3-18320
16,0	5/8	300	250	3-18320
16,0	5/8	450	400	3-18320
16,0	5/8	600	550	3-18320

witec® HAMMERBOHRER SDS-PLUS

witec® HAMMER DRILLS SDS-PLUS

Ø D mm	Ø Zoll "	L1 mm	L2 mm	Art.-Nr.
16.0	5/8	800	750	3-18320
16.0	5/8	1000	950	3-18320
17.0	21/32	210	160	3-18320
17.0	21/32	310	260	3-18320
18.0	11/16	200	150	3-18320
18.0	11/16	260	200	3-18320
18.0	11/16	300	250	3-18320
18.0	11/16	450	400	3-18320
18.0	11/16	600	550	3-18320
18.0	11/16	1000	950	3-18320
19.0	23/32	200	150	3-18320
19.0	23/32	450	400	3-18320
20.0	25/32	200	150	3-18320
20.0	25/32	300	250	3-18320
20.0	25/32	450	400	3-18320
20.0	25/32	600	550	3-18320
20.0	25/32	1000	950	3-18320
22.0	27/32	250	200	3-18320
22.0	27/32	450	400	3-18320
22.0	27/32	600	550	3-18320
22.0	27/32	1000	950	3-18320
24.0	15/16	250	200	3-18320
24.0	15/16	450	400	3-18320
25.0	31/32	250	200	3-18320
25.0	31/32	450	400	3-18320
25.0	31/32	600	550	3-18320
25.0	31/32	1000	950	3-18320
26.0	1"	250	200	3-18320
26.0	1"	450	400	3-18320

ANWENDUNGEN

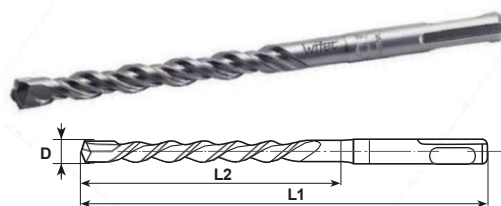
ART.-NR.: 3-18320



witec® HAMMERBOHRER SDS-PLUS witec® HAMMER DRILLS SDS-PLUS

- mit HM-Platte
- 2 Schneiden
- Spitzenwinkel
- Spirale zur optimalen Bohrmehlförderung
- with carbide-plate
- 2 cutter
- point angle
- Helix for optimal chip evacuation

INFOBOX



Art.-Nr.: 3-18321

Ø D mm	Ø Zoll "	L1 mm	L2 mm	Art.-Nr.
4,0	5/32	110	50	3-18321
4,0	5/32	160	50	3-18321
5,0	3/16	110	50	3-18321
5,0	3/16	160	100	3-18321
5,0	3/16	210	150	3-18321
5,0	3/16	260	200	3-18321
5,0	3/16	310	250	3-18321
5,5	7/32	110	50	3-18321
5,5	7/32	160	100	3-18321
6,0	15/64	110	50	3-18321
6,0	15/64	160	100	3-18321
6,0	15/64	210	150	3-18321
6,0	15/64	260	200	3-18321
6,0	15/64	310	250	3-18321
6,0	15/64	410	350	3-18321
8,0	5/16	110	50	3-18321
8,0	5/16	160	100	3-18321
8,0	5/16	210	150	3-18321
8,0	5/16	260	200	3-18321
8,0	5/16	310	250	3-18321
8,0	5/16	400	350	3-18321
8,0	5/16	460	400	3-18321
10,0	3/8	110	50	3-18321
10,0	3/8	160	100	3-18321
10,0	3/8	210	150	3-18321
10,0	3/8	260	200	3-18321
10,0	3/8	310	250	3-18321
10,0	3/8	350	300	3-18321
10,0	3/8	450	400	3-18321
10,0	3/8	600	500	3-18321
12,0	15/32	160	100	3-18321
12,0	15/32	210	150	3-18321
12,0	15/32	260	200	3-18321
12,0	15/32	310	250	3-18321

Ø D mm	Ø Zoll "	L1 mm	L2 mm	Art.-Nr.
12,0	15/32	460	400	3-18321
12,0	15/32	600	550	3-18321
14,0	9/16	160	100	3-18321
14,0	9/16	210	150	3-18321
14,0	9/16	260	200	3-18321
14,0	9/16	310	250	3-18321
14,0	9/16	360	300	3-18321
14,0	9/16	410	350	3-18321
14,0	9/16	460	400	3-18321
14,0	9/16	610	550	3-18321
14,0	9/16	1000	950	3-18321
15,0	19/32	160	100	3-18321
15,0	19/32	210	150	3-18321
15,0	19/32	260	200	3-18321
15,0	19/32	410	350	3-18321
16,0	5/8	160	100	3-18321
16,0	5/8	210	150	3-18321
16,0	5/8	260	200	3-18321
16,0	5/8	300	250	3-18321
16,0	5/8	360	300	3-18321
16,0	5/8	410	350	3-18321
16,0	5/8	450	400	3-18321
16,0	5/8	600	550	3-18321
16,0	5/8	1000	950	3-18321
17,0	21/32	410	350	3-18321
18,0	11/16	200	150	3-18321
18,0	11/16	260	200	3-18321
18,0	11/16	300	250	3-18321
18,0	11/16	360	300	3-18321
18,0	11/16	410	350	3-18321
18,0	11/16	450	400	3-18321
18,0	11/16	600	550	3-18321
18,0	11/16	1000	950	3-18321
19,0	23/32	200	150	3-18321

witec® HAMMERBOHRER SDS-PLUS

witec® HAMMER DRILLS SDS-PLUS

Ø D mm	Ø Zoll "	L1 mm	L2 mm	Art.-Nr.
19,0	23/32	300	250	3-18321
19,0	23/32	410	350	3-18321
19,0	23/32	450	400	3-18321
19,0	23/32	1000	950	3-18321
20,0	25/32	200	150	3-18321
20,0	25/32	260	200	3-18321
20,0	25/32	300	250	3-18321
20,0	25/32	360	300	3-18321
20,0	25/32	410	350	3-18321
20,0	25/32	450	400	3-18321
20,0	25/32	600	550	3-18321
20,0	25/32	1000	950	3-18321
22,0	7,8	210	150	3-18321
22,0	7,8	250	200	3-18321
22,0	7,8	300	250	3-18321
22,0	7,8	360	300	3-18321
22,0	7,8	410	350	3-18321
22,0	7,8	450	400	3-18321
22,0	7,8	600	550	3-18321
22,0	7,8	1000	950	3-18321
23,0	-	410	350	3-18321
24,0	59/64	250	200	3-18321
24,0	59/64	410	350	3-18321
24,0	59/64	450	400	3-18321
24,0	59/64	600	550	3-18321

Ø D mm	Ø Zoll "	L1 mm	L2 mm	Art.-Nr.
24,0	59/64	1000	950	3-18321
25,0	31/32	210	150	3-18321
25,0	31/32	250	200	3-18321
25,0	31/32	300	250	3-18321
25,0	31/32	360	300	3-18321
25,0	31/32	410	350	3-18321
25,0	31/32	450	400	3-18321
25,0	31/32	600	450	3-18321
25,0	31/32	1000	950	3-18321
26,0	1"	210	150	3-18321
26,0	1"	250	200	3-18321
26,0	1"	300	250	3-18321
26,0	1"	360	300	3-18321
26,0	1"	410	350	3-18321
26,0	1"	150	400	3-18321
26,0	1"	600	550	3-18321
26,0	1"	1000	950	3-18321
28,0	1 3/32	200	150	3-18321
28,0	1 3/32	250	200	3-18321
28,0	1 3/32	300	250	3-18321
28,0	1 3/32	360	300	3-18321
28,0	1 3/32	410	350	3-18321
28,0	1 3/32	450	400	3-18321
28,0	1 3/32	600	550	3-18321
28,0	1 3/32	1000	950	3-18321

Sätze(Kunststoff)/Sets(Plastic)

Ø D mm	Art.-Nr.
5 / 6 x 110 mm 6 / 8 / 10 x 160 mm	3-18321



Sätze(Metall)/Sets(Metal)

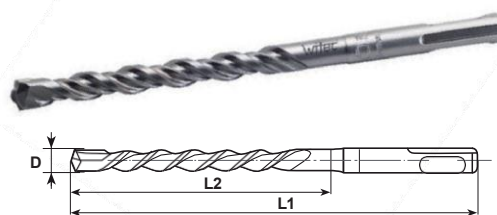
Ø D mm	Art.-Nr.
5 / 6 / 8 x 110 mm 6 / 8 / 10 / 12 x 160 mm	3-18321



witec® HAMMERBOHRER SDS-PLUS witec® HAMMER DRILLS SDS-PLUS

- mit HM-Platte
- 4 Schneiden
- Spitzenwinkel
- Spirale zur optimalen Bohrmehlförderung
- with carbide-plate
- 4 cutter
- point angle
- Helix for optimal chip evacuation

INFOBOX



Art.-Nr.: 3-18322R

Ø D mm	Ø Zoll "	L1 mm	L2 mm	Art.-Nr.
5,0	3/16	110	50	3-18322R
5,0	3/16	160	100	3-18322R
5,5	7/32	110	50	3-18322R
6,0	15/64	110	50	3-18322R
6,0	15/64	160	100	3-18322R
6,0	15/64	210	150	3-18322R
6,0	15/64	260	200	3-18322R
6,5	1/4	160	100	3-18322R
6,5	1/4	210	150	3-18322R
8,0	5/16	110	50	3-18322R
8,0	5/16	160	100	3-18322R
8,0	5/16	210	150	3-18322R
8,0	5/16	260	200	3-18322R
8,0	5/16	310	250	3-18322R
8,0	5/16	460	400	3-18322R
10,0	3/8	110	50	3-18322R
10,0	3/8	160	100	3-18322R
10,0	3/8	210	150	3-18322R
10,0	3/8	260	200	3-18322R
10,0	3/8	310	250	3-18322R
10,0	3/8	450	400	3-18322R
10,0	3/8	600	550	3-18322R
12,0	15/32	160	100	3-18322R
12,0	15/32	210	150	3-18322R
12,0	15/32	260	200	3-18322R
12,0	15/32	310	250	3-18322R
12,0	15/32	450	400	3-18322R
12,0	15/32	600	550	3-18322R
14,0	9/16	160	100	3-18322R
14,0	9/16	210	150	3-18322R
14,0	9/16	260	200	3-18322R
14,0	9/16	310	250	3-18322R
14,0	9/16	450	400	3-18322R
14,0	9/16	600	550	3-18322R

Ø D mm	Ø Zoll "	L1 mm	L2 mm	Art.-Nr.
16,0	5/8	210	150	3-18322R
16,0	5/8	260	200	3-18322R
16,0	5/8	310	250	3-18322R
16,0	5/8	450	400	3-18322R
16,0	5/8	600	550	3-18322R



Sätze (Metall) / Sets (Metal)

Ø D mm	Art.-Nr.
5 / 6 / 8 x 110 mm	3R18322S0512
6 / 8 / 10 / 12 x 160 mm	

witec® HAMMERBOHRER SDS-MAX witec® HAMMER DRILLS SDS-MAX

INFOBOX

- Kugelgestrahlt und zwischenstufengehärtet aus Chrom-Nickel-Molybdän-Stahl
- mit besonders harter HM-Platte und Zentrierspitze
- 2 Schneider bis 15 mm
- 4 Schneider ab 16 mm
- Spirale zur optimalen Bohrmehlförderung
- shot-blasted with steel balls and hardened of chrome-nickel-molybdenum steel
- with even harder carbide plate and centering tip
- 2 cutter up to 15 mm
- 4 cutter from 16 mm
- Helix for optimal chip evacuation



Art.-Nr.: 3-18820

Ø D mm	Ø Zoll "	L1 mm	L2 mm	Art.-Nr.
12,0	15/32	340	200	3-18820
12,0	15/32	540	400	3-18820
14,0	9/16	340	200	3-18820
14,0	9/16	540	400	3-18820
16,0	.5/8	340	200	3-18820
16,0	5/8	540	400	3-18820
18,0	11/16	340	200	3-18820
18,0	11/16	540	400	3-18820
20,0	3/4	320	200	3-18820
20,0	3/4	520	400	3-18820
22,0	7/8	320	200	3-18820
22,0	7/8	520	400	3-18820

Ø D mm	Ø Zoll "	L1 mm	L2 mm	Art.-Nr.
24,0	15/16	320	200	3-18820
24,0	15/16	520	400	3-18820
25,0	31/32	320	200	3-18820
25,0	31/32	520	400	3-18820
28,0	1 3/32	320	250	3-18820
28,0	1 3/32	520	450	3-18820
30,0	1 3/16	320	250	3-18820
30,0	1 3/16	520	450	3-18820
32,0	1 1/4	320	250	3-18820
32,0	1 1/4	520	450	3-18820
35,0	1 3/8	520	450	3-18820
40,0	1 9/16	520	450	3-18820

ANWENDUNGEN

ART.-NR.: 3-18820



Einsatzgebiete:

zum Bohren in Mauerwerk, Stahlbeton, Natur- und Kunststein

Materials:

for drilling of masonry, reinforced concrete, natural and artificial stone

witec® HAMMERBOHRER SDS-MAX W2 X-FORM witec® HAMMER DRILLS SDS-MAX W2 X-FORM

- Kugelgestrahlt und zwischenstufengehärtet aus Chrom-Nickel-Molybdän-Stahl
- mit besonders harter HM-Platte und Zentrierspitze
- 2 Schneider bis 15 mm
- 4 Schneider ab 16 mm
- Spirale zur optimalen Bohrmehlförderung
- shot-blasted with steel balls and hardened of chrome-nickel-molybdenum steel
- with even harder carbide plate and centering tip
- 2 cutter up to 15 mm
- 4 cutter from 16 mm
- Helix for optimal chip evacuation

INFOBOX



Art.-Nr.: 3-18822

Ø D mm	L1 mm	L2 mm	Art.-Nr.
12,0	340	200	3-18822
12,0	540	400	3-18822
12,0	740	600	3-18822
14,0	340	200	3-18822
14,0	540	400	3-18822
15,0	340	200	3-18822
15,0	540	400	3-18822
16,0	340	200	3-18822
16,0	540	400	3-18822
16,0	740	600	3-18822
16,0	940	800	3-18822
16,0	13320	1180	3-18822
16,0	1620	1480	3-18822
16,0	2000	1880	3-18822
18,0	340	200	3-18822
18,0	540	400	3-18822
18,0	740	600	3-18822
18,0	940	800	3-18822
18,0	1320	1180	3-18822
20,0	320	200	3-18822
20,0	520	400	3-18822
20,0	720	600	3-18822
20,0	920	800	3-18822
20,0	1320	1200	3-18822
20,0	2000	1880	3-18822

Ø D mm	L1 mm	L2 mm	Art.-Nr.
22,0	320	200	3-18822
22,0	520	400	3-18822
22,0	720	600	3-18822
22,0	920	800	3-18822
22,0	1320	1200	3-18822
22,0	2000	1880	3-18822
24,0	320	200	3-18822
24,0	520	400	3-18822
25,0	320	200	3-18822
25,0	520	400	3-18822
25,0	720	600	3-18822
25,0	920	800	3-18822
25,0	1320	1200	3-18822
25,0	2000	1880	3-18822
26,0	320	200	3-18822
26,0	520	400	3-18822
26,0	920	800	3-18822
28,0	370	250	3-18822
28,0	570	400	3-18822
28,0	670	550	3-18822
28,0	920	800	3-18822
28,0	1320	1200	3-18822
30,0	370	250	3-18822
30,0	570	450	3-18822
30,0	920	800	3-18822

ANWENDUNGEN

ART.-NR.: 3-18822



Einsatzgebiete:

zum Bohren in Mauerwerk, Stahlbeton, Natur- und Kunststein

Materials:

for drilling of masonry, reinforced concrete, natural and artificial stone

witec® HAMMERBOHRER SDS-MAX W2 X-FORM

witec® HAMMER DRILLS SDS-MAX W2 X-FORM

Art.-Nr.: 3-18822

Ø D mm	L1 mm	L2 mm	Art.-Nr.
32,0	370	250	3-18822
32,0	570	450	3-18822
32,0	920	800	3-18822
32,0	1320	1200	3-18822
32,0	2000	1880	3-18822
35,0	370	250	3-18822
35,0	570	450	3-18822
35,0	670	550	3-18822
35,0	920	800	3-18822
35,0	1320	1200	3-18822
35,0	2000	1880	3-18822
37,0	370	250	3-18822
37,0	570	450	3-18822

Ø D mm	L1 mm	L2 mm	Art.-Nr.
37,0	920	800	3-18822
38,0	370	250	3-18822
38,0	570	450	3-18822
40,0	370	250	3-18822
40,0	570	450	3-18822
40,0	920	800	3-18822
40,0	1320	1200	3-18822
40,0	2000	1880	3-18822
45,0	570	450	3-18822
45,0	920	800	3-18822
50,0	570	450	3-18822
52,0	570	450	3-18822

ANWENDUNGEN

ART.-NR.: 3-18822



Einsatzgebiete:

zum Bohren in Mauerwerk, Stahlbeton, Natur- und Kunststein

Materials:

for drilling of masonry, reinforced concrete, natural and artificial stone

witec[®] MEISSEL CHISELS

- Kugelgestrahlt und gehärtet
- aus hochwertigem Werkzeugstahl
- shot-blasted and hardened
- made of high-quality tool-steel

INFOBOX



Art.-Nr.: 3-18400

SDS-max

Meissel chisel	Länge/Breite Ø mm	Art.-Nr.
Spitzmeißel Point Chisel	280	3-18400
	400	3-18400
	600	3-18400
Flachmeißel Flat Chisel	280/25	3-18401
	400/25	3-18401
	600/25	3-18401
Spatmeißel Spade Chisel	400/50	3-18402
	300/80	3-18402
Hohlmeißel Hollow Chisel	300/26	3-18403

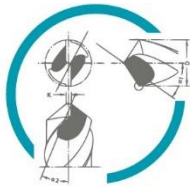
SDS-plus

Meissel chisel	Länge/Breite Ø mm	Art.-Nr.
Spitzmeißel Point Chisel	250	3-18400
Flachmeißel Flat Chisel	250/20	3-18401
Spatmeißel Spade Chisel	250/40	3-18402
Fliesenmeißel Hollow Chisel	200/40	3-18404
Hohlmeißel Tile Chisel	250/22	3-18403

ANWENDUNGEN

ART.-NR.: 3-18400





witec®
WERKZEUG- UND INDUSTRIE TECHNIK

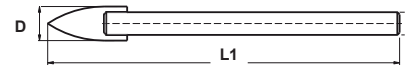
Risto
Reparatur- und
Instandhaltung

witec® GLASBOHRER witec® GLASS DRILL BITS

- mit spezieller nierenförmiger Hartmetallplatte
- zylindrischer Schaft
- galvanisiert

INFOBOX

- with special carbide-tip
- cylindrical shank
- galvanized



Art.-Nr.: 3-19922

Ø D1 mm	Art.-Nr.
3.00	3-19922
4.00	3-19922
5.00	3-19922
6.00	3-19922
8.00	3-19922
10.00	3-19922
12.00	3-19922

Sätze (Metall)/Sets (Metal)

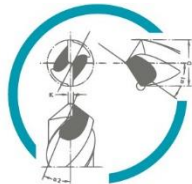
Ø D mm	Art.-Nr.
4/5/6/8/10 mm	3-18400

Einsatzgebiete:

zum Bohren von Glas, Porzellan, Fliesen, Keramik, etc.

Materials:

special drills for glass, porcelain, tiles, ceramics, etc.



witec[®]
WERKZEUG- UND INDUSTRIE TECHNIK

Risto
Reparatur- und
Instandhaltung

SENKWERKZEUGE COUNTERSINKING TOOLS

Art.-Nr.		Seite Page
3-18080/ATNplus	Kegel- und Engratsenker, HSS-Co5%(M35), C, 90°, geschliffen, DIN 335 Countersink, HSS-Co5%(M35), C, 90°, grinded, DIN 335	78
3-19080/TiN	Kegel- und Engratsenker, HSS(M2), C, 90°, TiN-Beschichtung, geschliffen, DIN 335 Countersink, HSS(M2), C, 90°, TiN-Coating, grinded, DIN 335	79
3-19180/TiN	Stufenbohrer, HSS, TiN-Beschichtung, witec-Norm Step Drill, HSS, TiN-Coating, witec-Norm	80
3-19280/ATN	Stufenbohrer, gerade genutet, Kreuzanschliff, HSS-Co5%(M35), ATN-Besch. double lipped, step drill, straigh flutes, split point, HSS-Co5%(M35), ATN-Coating	81
3-19380/TiN	Blechsälbohrer, HSS(M2), Tin-Beschichtung, witec-Norm Sheet Metall Drill, HSS(M2), TiN-coating, witec-Norm	82
3-19480/ATN	Stufenblechsälbohrer, HSS-Co5%(M35), ATN-Beschichtung, witec-Norm Step Drill, HSS-Co5%(M35), ATN-coating, witec-Norm	83
3-19580/TiN	Blechsälbohrer mit Kreuzanschliff, HSS-Co5%(M35), witec-Norm Sheet Metall Drill, with split point, HSS-Co5%(M35), witec-Norm	84
3-19680	Kegel- und Entgratsenker mit Querloch, HSS(M2), 90°, witec-Norm Deburring Countersink with cross hole, HSS(M2), 90°, witec-Norm	85
3-19780/TiN	Stufenblechsälbohrer, spiral genutet, HSS(M2), TiN-Besch. witec-Norm Sheet metal Step Drill, Spiral flutes, HSS(M2), TiN-Coating, witec-Norm	86

witec® KEGEL- UND ENTGRATSENKER witec® COUNTERSINKS

DIN 335

HSS-Co5%
M35

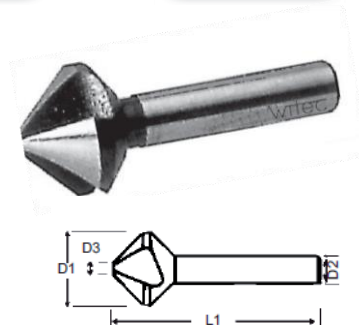
C

90°

GESCHLIFFEN
GRINDED

- Zylinderschaft
- 3 Schneiden
- Blank oder ATNplus beschichtet
- straight shank
- 3 cutters
- bright finished or ATNplus coating

INFOBOX



Art.-Nr.: 3-18080 / ATNplus

Sätze / Sets

Ø D1 mm	D2 mm	D3 mm	L1 mm	Art.-Nr.
6,3	5,0	1,5	45	3-18080/ATN+
8,0	6,0	2,0	50	3-18080/ATN+
8,3	6,0	2,0	50	3-18080/ATN+
10,0	6,0	2,5	50	3-18080/ATN+
10,4	6,0	2,5	50	3-18080/ATN+
12,4	8,0	2,8	56	3-18080/ATN+
15,0	10,0	3,2	60	3-18080/ATN+
16,5	10,0	3,2	60	3-18080/ATN+
20,5	10,0	3,5	63	3-18080/ATN+
25,0	10,0	3,8	67	3-18080/ATN+
31,0	12,0	4,2	71	3-18080/ATN+

Ø mm	Art.-Nr.
6,3 / 8,3 / 10,4 / 12,4 / 16,5 / 20,5 mm	3-18080/ATN+
6,3 / 10,4 / 16,5 / 20,5 / 25,0 mm	3-18080/ATN+
8,0 / 12,4 / 16,5 / 20,5 / 25,0 mm	3-18080/ATN+



Einsatzgebiete:

in allen gängigen Industriematerialien

Materials:

for all common industrial materials

witec® KEGEL- UND ENTGRATSENKER witec® COUNTERSINKS

DIN 335

HSS
M2

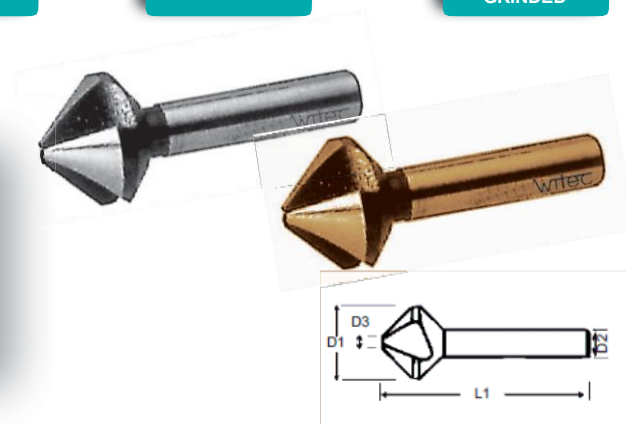
C

90°

GESCHLIFFEN
GRINDED

- Zylinderschaft
- 3 Schneiden
- blank oder TiN-Beschichtung
- straight shank
- 3 cutters
- bright finished or TiN-Coating

INFOBOX



Art.-Nr.: 3-19080 / 3-19080TiN

Ø D1 mm	D2 mm	D3 mm	L1 mm	Art.-Nr.	Ø D1 mm	D2 mm	D3 mm	L1 mm	Art.-Nr.
4,3	4,0	1,3	40	3-19080/TiN	11,5	8,0	2,8	56	3-19080/TiN
5,0	4,0	1,3	40	3-19080/TiN	12,4	8,0	2,8	56	3-19080/TiN
5,3	4,0	1,3	40	3-19080/TiN	13,4	8,0	2,8	56	3-19080/TiN
5,8	5,0	1,5	45	3-19080/TiN	15,0	10,0	3,2	60	3-19080/TiN
6,0	5,0	1,5	45	3-19080/TiN	16,5	10,0	3,2	60	3-19080/TiN
6,3	5,0	1,5	45	3-19080/TiN	19,0	10,0	3,5	63	3-19080/TiN
7,0	6,0	1,8	50	3-19080/TiN	20,5	10,0	3,5	63	3-19080/TiN
7,3	6,0	1,8	50	3-19080/TiN	23,0	10,0	3,8	67	3-19080/TiN
8,0	6,0	2,0	50	3-19080/TiN	25,0	10,0	3,8	67	3-19080/TiN
8,3	6,0	2,0	50	3-19080/TiN	28,0	12,0	4,0	71	3-19080/TiN
9,4	6,0	2,2	50	3-19080/TiN	30,0	12,0	4,2	71	3-19080/TiN
10,0	6,0	2,5	50	3-19080/TiN	31,0	12,0	4,2	71	3-19080/TiN
10,4	6,0	2,5	50	3-19080/TiN	40,0	12,0	4,2	80	3-19080/TiN



Sätze / Sets

Ø mm	Art.-Nr.
6,3 / 8,3 / 10,4 / 12,4 / 16,5 / 20,5 mm	3-19080 / TiN
6,3 / 8,3 / 12,4 / 16,5 / 20,5 / 25,0 mm	3-19080 / TiN
8,0 / 12,4 / 16,5 / 20,5 / 25,0 mm	3-19080 / TiN

Einsatzgebiete:

in allen gängigen Industriematerialien

Materials:

for all common industrial materials

witec® STUFENBLECHSCHÄLBOHRER witec® DOUBLE LIPPED STEP DRILLS

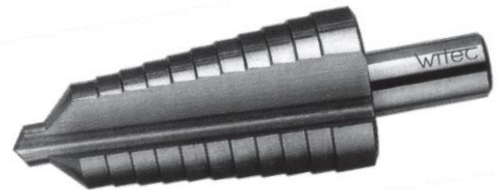
witec-NORM

HSS
M2

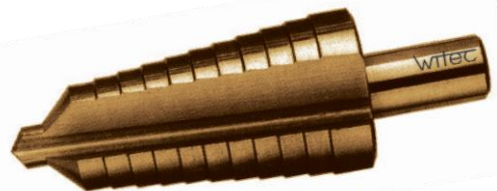
GESCHLIFFEN
GRINDED

- 2 Schneiden
- blank oder TiN Beschichtung
- 2 cutters
- bright finished or TiN coating

INFOBOX



Art.-Nr.: 3-19180



Art.-Nr.: 3-19180 TiN

blank / bright finished

Ø mm	Stufe step mm	Art.-Nr.
4-12	1	3-19180
4-20	2	3-19180
4-30	2	3-19180
6-30	2	3-19180
9-36	3	3-19180
12-20	1	3-19180
20-30	1	3-19180

TiN-beschichtet / TiN-coated

Ø mm	Stufe step mm	Art.-Nr.
4-12	1	3-19180 TiN
4-20	2	3-19180 TiN
4-30	2	3-19180 TiN
6-30	2	3-19180 TiN
9-36	3	3-19180 TiN
12-20	1	3-19180 TiN
20-30	1	3-19180 TiN



Sätze / Sets

Größe size	Abm. diameter mm	Art.-Nr.
1,2,3	4-12 / 4-20 / 6-30	3-19180
1,2,3	4-12 / 4-20 / 6-30	3-19180 TiN

Einsatzgebiete:

zum Bohren von größeren Löchern in dünnwandigen Materialien sowie zum Aufbohren vorhandener Löcher in Stahlblech bis 2mm Dicke, NE-Metalle bis 5mm Dicke

Materials:

for drilling in thin-walled materials like sheet-metal up to 2 mm thickness

witec® STUFENBLECHSCHÄLBOHRER witec® DOUBLE LIPPED STEP DRILLS

witec-NORM

HSS-Co5%
M35

GESCHLIFFENG
GRINDED

- 2 Schneiden
- mit Kreuzanschliff
- Blank oder ATN - Beschichtet
- 2 cutters
- with split point
- bright finished or ATN - Coated

INFOBOX



Art.-Nr.: 3-19280 / 3-19280 ATN

Ø mm	Stufe step mm	Art.-Nr.
4-12	1	3-19280
4-20	2	3-19280
6-30	2	3-19280
9-36	2	3-19280
SET 1,2,3	4-12 / 4-20 / 6-30	3-19280

Ø mm	Stufe step mm	Art.-Nr.
4-12	1	3-19280 ATN
4-20	2	3-19280 ATN
6-30	2	3-19280 ATN
SET 1,2,3	4-12 / 4-20 / 6-30	3-19280 ATN



Einsatzgebiete:

zum Bohren von größeren Löchern in dünnwandigen Materialien sowie zum Aufbohren vorhandener Löcher in Stahlblech und Edelstahl bis 2mm Dicke, NE-Metalle bis 5mm Dicke

Materials:

for drilling in thin-walled materials like sheet-metal up to 2 mm thickness

witec® BLECHSCHÄLBOHRER witec® SHEET METAL DRILLS

witec-NORM

HSS
M2

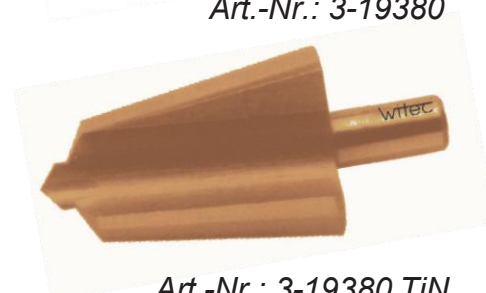
GESCHLIFFEN
GRINDED

- 2 Schneiden
- blank oder TiN Beschichtung
- 2 cutters
- bright finished or TiN coating

INFOBOX



Art.-Nr.: 3-19380



Art.-Nr.: 3-19380 TiN

blank / bright finished

Gruppe GR	Ø mm	Art.-Nr.
1	3-14	3-19380 / TiN
2	5-20	3-19380 / TiN
7	5-31	3-19380 / TiN
3	16-30,5	3-19380 / TiN
4	26-40	3-19380 / TiN
5	36-50	3-19380 / TiN
6	40-61	3-19380 / TiN

Sätze / Sets

Ø mm	Art.-Nr.
3-14 / 5-20 / 16-30,5	3-19380
3-14 / 5-20 / 16-30,5	3-19380 TiN



Einsatzgebiete:

zum Bohren von größeren Löchern in dünnwandigen Materialien wie Stahlblech, NE-Metalle etc

Materials:

for drilling in thin-walled materials like sheet-metal, profiles, pipes etc.

witec® STUFENBLECHSCHÄLBOHRER witec® STEP DRILLS

witec-NORM

HSS-Co5%
M35

GESCHLIFFEN
GRINDED

INFOBOX

- Spiralnuten
- Kreuzanschliff
- blank oder ATN plus-Beschichtung
- spiral flutes
- split-point
- bright finished or ATN plus-coated



blank / bright finished

Art.-Nr.: 3-19480 / 3-19480 ATN plus

Gruppe/ Group	Ø mm	Bohrstufen drilling steps mm	L mm	Schank/ Shank mm	Art.-Nr.
1	4-12	1	80	6	3-19480/ATN plus
2	4-20	2	70	8	3-19480/ATN plus
3	6-30	2	98	10	3-19480/ATN plus
4	6-36	3	97	12	3-19480
5	9-36	4	85	12	3-19480

Material	
ALU 99,5%	Steel 55 HRC -
ALU <10% Si	Steel 60 HRC -
ALU Guss / Cast	Steel 65 HRC -
Steel <500 N	Inox <900 N
Steel <750 N	Inox >900 N
Steel <900 N	Ti >800 N
Steel <1100 N	GG (G) Cast
Steel 45 HRC	Hardox Inconel

Sätze / Sets

Ø mm	Art.-Nr.
4-12 / 4-20 / 6-30	3-19480
4-12 / 4-20 / 6-30	3-19480 ATN plus



Einsatzgebiete:

für den Einsatz in Baustahl, CrNi-Stahl, NE-Metall

Materials:

to drill in structural steel, CrNi-Steel, non-ferrous metal

witec® KEGEL- UND ENTGRATSENKER MIT QUERLOCH witec® DEBURRING COUNTERSINKS WITH CROSS HOLE

witec-NORM

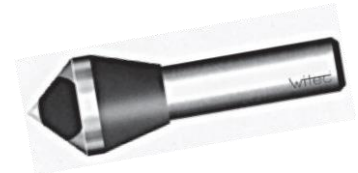
HSS
M2

90°

GESCHLIFFEN
GRINDED

- Zylinderschaft
- rechtsschneidend
- blank oder TiN Beschichtung
- straight shank
- right hand cutting
- bright finished or TiN coated

INFOBOX



Art.-Nr.: 3-19580



Art.-Nr.: 3-19580 TiN

blank / bright finished

Ø mm	Ø - Ø mm	D2 mm	Art.-Nr.
5	2,0 - 5,0	6	3-19580
10	5,0 - 10,0	8	3-19580
15	10,0 - 15,0	10	3-19580
20	15,0 - 20,0	12	3-19580
25	20,0 - 25,0	12	3-19580
30	25,0 - 30,0	15	3-19580
35	30,0 - 35,0	15	3-19580
40	35,0 - 40,0	15	3-19580
50	40,0 - 50,0	20	3-19580

Sätze / Sets

Ø mm	Ø - Ø mm	Art.-Nr.
5 / 10 / 15 / 20	2-5 / 5-10 / 10-15 / 15-20	3-19580
5 / 10 / 15 / 20	2-5 / 5-10 / 10-15 / 15-20	3-19580 TiN



Einsatzgebiete:

zum Grat- und ratterfreien Entgraten. Ansenken und Versenken in einem Arbeitsgang.

Materials:

for countersinking free of chattering and burring.

witec® BLECHSCHÄLBOHRER witec® SHEET METAL DRILLS

witec-NORM

HSS-Co5%
M35

GESCHLIFFEN
GRINDED

- 2 Schneiden
- blank
- 2 cutters
- bright finished

INFOBOX



Art.-Nr.: 3-19680

blank / bright finished

Ø mm	Art.-Nr.
3-14	3-19680
5-20	3-19680
5-31	3-19680
16-30,5	3-19680

Sätze / Sets

Ø mm	Art.-Nr.
3-14 / 5-20 / 16-30,5	3-19680



Einsatzgebiete:

für den Einsatz in Baustahl, CrNi-Stahl, NE-Metall

Materials:

to drill in structural steel, CrNi-Steel, non-ferrous metal

witec® STUFENBLECHSCHÄLBOHRER witec® STEP DRILLS

witec-NORM

HSS
M2

GESCHLIFFEN
GRINDED

INFOBOX

- Spiralnuten
- Kreuzanschliff
- blank oder TiN-Beschichtung
- spiral flutes
- split-point
- bright finished or TiN-coated



Art.-Nr.: 3-19780 / 3-19780 TiN

blank / bright finished

Ø mm	Bohrstufen drilling steps mm	Art.-Nr.
4-12	1	3-19780 / TiN
4-20	2	3-19780 / TiN
4-30	2	3-19780 / TiN
6-30	2	3-19780 / TiN
9-36	3	3-19780 / TiN
12-20	1	3-19780 / TiN
20-30	1	3-19780 / TiN

Sätze / Sets

Ø mm	Art.-Nr.
4-12 / 4-20 / 6-30	3-19780
4-12 / 4-20 / 6-30	3-19780 / TiN



Einsatzgebiete:

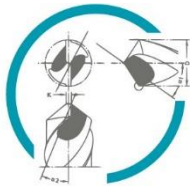
für den Einsatz in Stahl, Aluminium, Kunststoffe

Materials:

to drill in steel, Aluminium

GEWINDESCHNEIDWERKZEUGE THREADING TOOLS

Art.-Nr.		Seite Page
Gewindeschneidwerkzeug Sätze / Threading Tools Sets		
3-20001	Gewindeschneidwerkzeuge Satz, M3-M12 HSS(M2), metrisch Threading Tools Set, M3-M12 HSS(M2), metric	87
3-20001	Gewindeschneidwerkzeuge Satz, M3-M20 HSS(M2), metrisch Threading Tools Set, M3-M20 HSS(M2), metric	87
3-20001	Gewindeschneidwerkzeuge Satz, M3-M24 HSS(M2), metrisch Threading Tools Set, M3-M24 HSS(M2), metric	87
3-20002	Gewindeschneidwerkzeuge Mf Satz, M3-M12 HSS(M2), metrischfein Threading Tools Set, Mf M3-M12 HSS(M2), metric fine	88
3-20002	Gewindeschneidwerkzeuge Satz, Mf M6-M20 HSS(M2), metrisch fein Threading Tools Set, Mf M6-M20 HSS(M2), metric fine	88
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3-20003	Gewindeschneidwerkzeuge Satz, HSS(M2) G (BSP) Threading Tools Set, HSS(M2) G (BSP)	89
3-20003	Gewindeschneidwerkzeuge Satz, HSS(M2) G (BSP) Threading Tools Set, HSS(M2) G (BSP)	89
3-20003	Gewindeschneidwerkzeuge Satz, HSS(M2) G (BSP) Threading Tools Set, HSS(M2) G (BSP)	89
3-20010	Gewindeschneidwerkzeuge Satz, M3-M20 HSS-Co(M35), metrisch Threading Tools Set, M3-M20 HSS-Co(M35), metric	90
3-27090	Gewindeschneidwerkzeuge Satz, M3-M12 HSS(M2), metrisch Threading Tools Set, M3-M12 HSS(M2), metric	90
Runde Schneideisen / Round Solid Die		
3-20101-R	Runde Schneideisen, HSS(M2), metrischfein, EN 22568 B Round Solid Die, HSS(M2), metric fine, EN 22568 B	91
3-20102-R	Runde Schneideisen, HSS(M2), metrisch, EN 22568 B Round Solid Die, HSS(M2), metric, EN 22568 B	92
3-20103-R	Runde Schneideisen, HSS(M2) G (BSP), Rohrgewinde, DIN 5158 Round Solid Die, HSS(M2) G (BSP), Rohrgewinde, DIN 5158	93
3-20119	Runde Schneideisen, HSS(M2), metrisch, EN 22568 B Round Solid Die, HSS(M2), metric, EN 22568 B	94
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3-27001	Einschnittgewindebohrer, HSS(M2), metrisch, DIN 352/B Short Machine Tap, HSS(M2), metric, DIN 352/B	95
3-27002	Short Einschnittgewindebohrer, HSS-Co(M35), metrisch, DIN 352/C 35° Machine Tap, HSS-Co(M35), metric, DIN 352/C 35°	96
3-27003	Einschnittgewindebohrer, HSS(M2) G (BSP), metrisch, DIN 352/D Short Machine Tap, HSS(M2) G (BSP), metric, DIN 352/D	97
3-27004	Einschnittgewindebohrer, HSS(M2) G, metrischfein, DIN 2181/D Short Machine Tap, HSS(M2) G, metric fine, DIN 2181/D	98



Art.-Nr.		Seite Page
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3-27090	Handgewindebohrer, HSS(M2), metrisch, DIN 352 Hand Tap, HSS(M2), metric, DIN 352	99-100
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3-27094	Handgewindebohrer, HSS(M2) UNC, amerikanisches Grobgewinde, DIN 352 Hand Tap, HSS(M2) UNC, unified coarse thread, DIN 352	110
3-27095	Handgewindebohrer, HSS(M2) UNF, amerikanisches Feingewinde, DIN 2181 Hand Tap, HSS(M2) UNF, american Fine thread, DIN 2181	111
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3-24010	Maschinengewindebohrer, HSS-Co(M35), N, metrisch, DIN 371/B Machine Tap, HSS-Co(M35), N, metric, DIN 371/B	113
3-24010 / TiN	Maschinengewindebohrer, HSS-Co(M35), N, metrisch, DIN 371/B, TiN Beschichtung Machine Tap, HSS-Co(M35), N, metric, DIN 371/B, TiN coating	113
3-24021 / TiN	Maschinengewindebohrer, HSS-Co(M35), N, metrisch, 35° RSP, DIN 371/C Machine Tap, HSS-Co(M35), N, metric, 35° RSP, DIN 371/C	114
3-24100	Maschinengewindebohrer, HSS-Co(M35), N, metrisch, DIN 376/B Machine Tap, HSS-Co(M35), N, metric, DIN 376/B	115
3-24100 / TiN	Maschinengewindebohrer, HSS-Co(M35), N, metrisch, DIN 376/B, TiN Beschichtung Machine Tap, HSS-Co(M35), N, metric, DIN 376/B, TiN coating	115
3-24102 / TiN	Maschinengewindebohrer, HSS-Co(M35), N, metrisch, 35° RSP, DIN 376/C Machine Tap, HSS-Co(M35), N, metric, 35° RSP, DIN 376/C	116
3-25010 / TiN	Maschinengewindebohrer, HSS(M2), N, metrisch, DIN 371/B Machine Tap, HSS(M2), N, metric, DIN 371/B	117
3-25021	Maschinengewindebohrer, HSS(M2), metrisch, 35° RSP, DIN 371/C Machine Tap, HSS(M2), metric, 35° RSP, DIN 371/C	118
3-25021 / TiN	Maschinengewindebohrer, HSS(M2), metrisch, 35° RSP, DIN 371/C, TiN Beschichtung Machine Tap, HSS(M2), metric, 35° RSP, DIN 371/C, TiN coating	118
3-25100 / TiN	Maschinengewindebohrer, HSS(M2), metrisch, DIN 376/B, TiN Beschichtung Machine Tap, HSS(M2), metric, DIN 376/B, TiN coating	119
3-25102 / TiN	Maschinengewindebohrer, HSS(M2), metrisch, 35° RSP, DIN 376/C Machine Tap, HSS(M2), metric, 35° RSP, DIN 376/C	120
Kombigewindebohrer / Combined Tap		
3-27370	Kombigewindebohrer, HSS-E(M2), metrisch, DIN 13, blank Combined Tap, HSS-E(M2), metric, DIN 13, bright finished	121
3-27370 / TiN	Kombigewindebohrer, HSS-E(M2), metrisch, DIN 13, TiN beschichtet Combined Tap, HSS-E(M2), metric, DIN 13, TiN coated	121

witec® GEWINDESCHNEIDWERKZEUGE SÄTZE witec® THREADING TOOLS SETS

SORTIMENTE / SETS

**HSS
M2**

**METRISCH
METRIC**

Sortiment / Set M3-M12	Art.-Nr.
Gewindeschneidwerkzeug-Sortiment in Metallkassette 2-27090 Handgewindebohrer DIN 352 HSS Satz 3-teilig M3 - M12 Schneideisen DIN 223 (DIN EN22568) 25x9 Schneideisenhalter DIN 225 verstellbares Windeisen DIN 1814 Gr. 1,5 Schraubenausdreher Threadingtool-assortment in metalbox hand taps DIN 352 HSS set in 3-pcs M3-M12 round solid dies DIN 223 (DIN EN 22568) 25x9 diestock DIN 225 adjustable wrench DIN 1814 No. 1,5, screw extractor	3-20001

Art.-Nr.: 3-20001



Sortiment / Set M3-M20	Art.-Nr.
Gewindeschneidwerkzeug-Sortiment in Stahlkassette 2-27090 handtaps DIN 352 HSS 3-teiliger Satz M3-M20 2-20102 Schneideisen DIN 223 (DIN EN 22568) verstellbare 2-90001 Windeisen DIN 1814 Nr. 1+3 2-90002 Schneideisenhalter DIN 225 20x5, 20x7, 25x9, 30x11 38x14, 45x18, Ratsche Nr. 1+2 Threadingtool-assortment in metalbox hand taps DIN 352 HSS set in 3-pcs. M3-M20 round solid dies DIN 223 (DIN EN 22568) adjustable wrench DIN 1814 No. 1+3 die stock DIN 225, ratch No. 1+2	3-20001

Sortiment / Set M3-M24	Art.-Nr.
Gewindeschneidwerkzeug-Sortiment in Stahlkassette 2-27090 Handgewindebohrer DIN 352 HSS 3-teiliger Satz M3-M24 2-20102 Schneideisen DIN 223 (DIN EN 22568) verstellbare 3-90001 Windeisen DIN 1814 Nr. 1+3 3-90002 Schneideisenhalter DIN 225 20x5, 20x7, 25x9, 30x11 38x14, 45x18, 55x22, Threadingtool-assortment in Metalbox hand taps DIN 352 HSS set in 3-pcs. M3-M24 round solid dies DIN 223 (DIN EN 22568) adjustable wrench DIN 1814 No. 1+3 die stock DIN 225	3-20001

witec® GEWINDESCHNEIDWERKZEUGE SÄTZE

witec® THREADING TOOLS SETS

SORTIMENTE / SETS

**HSS
M2**

**METRISCHFEIN
METRIC FEIN**

Sortiment / Set M3-M12	Art.-Nr.
2-27092 Handgewindebohrer DIN 2181 2-20101 Schneideisen DIN 223 (DIN EN 22568) Mf3x0,35-4x0,5-5x0,5-6x0,75-8x0,75, Mf 10x1-12x1,5 3-90001 verstellbare Windeisen DIN 1814 Nr. 1+2 3-90002 Schneideisenhalter DIN 225 (DIN EN 22568) 20x5-25x9-30x11-38x10 3-90003 Werkzeughalter mit Knarre rechts, links Nr. 1 Threadingtool-assortment metric fine in metalbox hand taps DIN 2181 round solid dies DIN 223 (DIN EN 22568) adjustable wrench DIN 1814 No. 1+2 die stock DIN 225 (DIN EN 22568) tap holder with wratches right/left	3-20002

Art.-Nr.: 3-20002

Sortiment / Set M6-M20	Art.-Nr.
2-27092 Handgewindebohrer DIN 2181 2-20101 Schneideisen DIN 223 (DIN EN 22568) Mf6x0,75-8x0,75-10x1-12x1-12x1,5-14x1,25 Mf 14x1,5-16x1,5-18x1,5-20x1,5 3-90001 verstellbare Windeisen DIN 1814 Nr. 1+3 3-90002 Schneideisenhalter DIN 225 (DIN EN 22568) 20x7-25x9-30x11-38x10-45x14 3-90003 Werkzeughalter mit Knarre rechts, links Nr. 1 Threadingtool-assortment metric fine in metalbox hand taps DIN 2181 round solid dies DIN 223 (DIN EN 22568) adjustable wrench DIN 1814 No. 1+2 die stock DIN 225 (DIN EN 22568) tap holder with wratches right/left	3-20002



Sortiment / Set M6-M24	Art.-Nr.
2-27092 Handgewindebohrer DIN 2181 2-20101 Schneideisen DIN 223 (DIN EN 22568) Mf6x0,75-8x0,75-8x1-10x1-12x1-12x1,5 Mf 14x1,25-14x1,5-16x1,5-18x1,5 Mf 20x1,5-24x1,5 3-90001 verstellbare Windeisen DIN 1814 Nr. 1+3 3-90002 Schneideisenhalter DIN 225 (DIN EN 22568) 20x7-25x9-30x11-38x10-45x14 3-90003 Werkzeughalter mit Knarre rechts, links Nr. 1 Threadingtool-assortment metric fine in Metalbox hand taps DIN 2181 round solid dies DIN 223 (DIN EN 22568) adjustable wrench DIN 1814 No. 1+2 die stock DIN 225 (DIN EN 22568) tap holder with wratches right/left	3-20002

witec® GEWINDESCHNEIDWERKZEUGE SÄTZE

witec® THREADING TOOLS SETS

SORTIMENTE / SETS

**HSS
M2**

G (BSP)

Sortiment / Sets G (BSP)	Art.-Nr.
Handgewindebohrer / hand taps DIN 5157 G 1/8-1/4-3/8-1/2-3/4-1" Gewindeschneideisen / round solid dies DIN 5158 3-90001 vertellbare Windeisen / adjustable wrench DIN1814 Nr.1+3+5 3-90002 Schneideisenhalter / die stock DIN 225 30x11-38x10-45x14-55x16-65x18	3-20003

Art.-Nr.: 3-20003

Sortiment / Sets G (BSP)	Art.-Nr.
Handgewindebohrer / hand taps DIN 5157 G 1/8-1/4-3/8-1/2-5/8-3/4-7/8-1" Gewindeschneideisen / round solid dies DIN 5158 3-90001 vertellbare Windeisen / adjustable wrench DIN1814 Nr.1+3+5 3-90002 Schneideisenhalter / die stock DIN 225 30x11-38x10-45x14-55x16-65x18	3-20003



Sortiment / Sets G (BSP)	Art.-Nr.
Handgewindebohrer / hand taps DIN 5157 G 1/4-3/8-1/2-3/4-1"-1.1/4-1.1/2 Gewindeschneideisen / round solid dies DIN 5158 3-90001 vertellbare Windeisen / adjustable wrench DIN1814 Nr.2+4+7 3-90002 Schneideisenhalter / die stock DIN 225 38x10-45x14-55x16-65x18-75x20-90x22	3-20003

witec® GEWINDESCHNEIDWERKZEUGE SÄTZE witec® THREADING TOOLS SETS

SORTIMENTE / SETS

**HSS-Co5%
M35**

**METRISCH
METRIC**

Art.-Nr.: 3-20010

Sortiment / Set M3-M20 HSS-Co	Art.-Nr.
Gewindeschneidwerkzeug-Sortiment in Stahlkassette 2-27096 Handgewindebohrer DIN 352 HSS-E 3-teiliger Satz M3-M20 2-20110 Schneideisen DIN 223 (DIN EN 22568) 3-90001 verstellbare Windeisen DIN 1814 Nr. 1+3 3-90002 Schneideisenhalter DIN 225 20x5, 20x7, 25x9, 30x11, 38x14, 45x18 Threadingtool-assortment in metalbox DIN 352 HSS-E set in 3-pcs. M3-M20 round solid dies DIN 223 (DIN EN 22568) adjustable wrench DIN 1814 No. 1+3 die stock DIN 225	3-20010



Sortiment / Set M3-M12 HSS	Art.-Nr.
Einschnittgewindebohrer in Metallkassette HSS DIN 352/B M3-M12 Kernlochspiralbohrer DIN 338 rollgewalzt verstellbares Windeisen DIN 1814 Gr 1,5 Machinetaps short in metalbox HSS DIN 352/B M3-M12 core-hole drills rolled adjustable wrench DIN 1814 No. 1,5	3-27090



Art.-Nr.: 3-27090

Sortiment / Set M3-M12 HSS	Art.-Nr.
HSS-Handgewindebohrer DIN 352 je 1 Satz, 3tlg., M3 - M12 HSS-hand tap DIN 352 per 1 set, 3 pcs., M3 -M12	3-27090



Art.-Nr.: 3-27090

Verschiedene Sätze- und Sortimentausführungen auf Anfrage.
Various tool sets and assortments on request.

witec® RUNDE SCHNEIDEISEN witec® ROUND SOLID DIES

DIN 223 B

HSS
M2

METRISCHFEIN
METRIC FEIN

- metrisches ISO-Feingewinde DIN 13
- DIN EN 22568 (DIN 223B)
- metric ISO-fine thread DIN 13
- DIN EN 22568 (DIN 223B)

INFOBOX



Art.-Nr.: 3-20101

Ø	Steigung Pitch mm	Außen- Ø Outside- Ø mm	Höhe Height mm	Art.-Nr.
MF 3	0,35	20	5	3-20101
MF 4	0,35	20	5	3-20101
MF 4	0,5	20	5	3-20101
MF 5	0,5	20	5	3-20101
MF 5	0,75	20	7	3-20101
MF 6	0,50	20	7	3-20101
MF 6	0,75	20	7	3-20101
MF 7	0,75	25	9	3-20101
MF 8	0,50	25	9	3-20101
MF 8	0,75	25	9	3-20101
MF 8	1,00	25	9	3-20101
MF 9	0,75	25	9	3-20101
MF 9	1,0	25	9	3-20101
MF 10	0,75	30	11	3-20101
MF 10	1,00	30	11	3-20101
MF 10	1,25	30	11	3-20101
MF 11	1,0	30	11	3-20101
MF 11	1,25	30	11	3-20101
MF 12	1,00	38	10	3-20101
MF 12	1,25	38	10	3-20101
MF 12	1,50	38	10	3-20101
MF 13	1,00	38	10	3-20101
MF 13	1,50	38	10	3-20101
MF 14	1,00	38	10	3-20101
MF 14	1,25	38	10	3-20101
MF 14	1,50	38	10	3-20101
MF 15	1,50	38	10	3-20101
MF 16	1,00	45	14	3-20101
MF 16	1,25	45	14	3-20101
MF 16	1,50	45	14	3-20101
MF 18	1,00	45	14	3-20101
MF 18	1,25	45	14	3-20101

Ø	Steigung Pitch mm	Außen- Ø Outside- Ø mm	Höhe Height mm	Art.-Nr.
MF 18	1,50	45	14	3-20101
MF 18	2,00	45	14	3-20101
MF 20	1,00	45	14	3-20101
MF 20	1,25	45	14	3-20101
MF 20	1,50	45	14	3-20101
MF 20	2,00	45	14	3-20101
MF 22	1,00	55	16	3-20101
MF 22	1,50	55	16	3-20101
MF 22	2,0	55	16	3-20101
MF 24	1,00	55	16	3-20101
MF 24	1,50	55	16	3-20101
MF 24	2,00	55	16	3-20101
MF 25	1,5	55	16	3-20101
MF 26	1,5	55	16	3-20101
MF 26	2,0	55	16	3-20101
MF 27	1,5	65	18	3-20101
MF 27	2,0	65	18	3-20101
MF 28	1,5	65	18	3-20101
MF 28	2,0	65	18	3-20101
MF 30	1,0	65	18	3-20101
MF 30	1,5	65	18	3-20101
MF 30	2,0	65	18	3-20101
MF 32	1,5	65	18	3-20101
MF 35	1,5	65	18	3-20101
MF 38	1,5	75	20	3-20101
MF 40	1,5	75	20	3-20101
MF 42	1,5	75	20	3-20101
MF 45	1,5	90	22	3-20101
MF 48	1,5	90	22	3-20101
MF 50	1,5	90	22	3-20101
MF 52	1,5	90	22	3-20101

Einsatzgebiete:

für Außengewinde in Stählen bis 900 N/mm² Festigkeit, in langspanenden Werkstoffen

Materials:

for external threads in steels up to 900 N/mm² tensile strength, in longchipping materials

witec® RUNDE SCHNEIDEISEN witec® ROUND SOLID DIES

DIN 223

HSS
M2

METRISCH
METRIC

- metrisches ISO-Gewinde DIN 13
- DIN EN 22568 (DIN 223)
- metric ISO-thread DIN 13
- DIN EN 22568 (DIN 223)

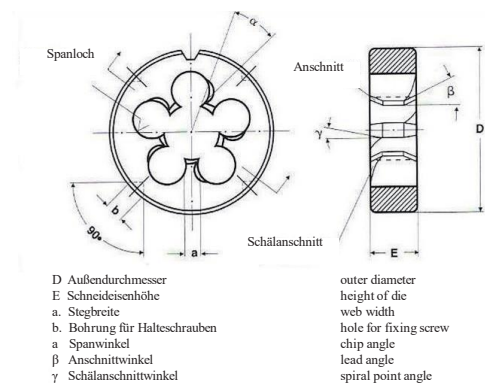
INFOBOX



Art.-Nr.: 3-20102

Ø	Steigung Pitch mm	Außen- Ø Outside- Ø mm	Höhe Height mm	Art.-Nr.
M1	0,25	16	5	3-20102
M1.2	0,25	16	5	3-20102
M1.4	0,30	16	5	3-20102
M1.6	0,35	16	5	3-20102
M1.7	0,35	16	5	3-20102
M1.8	0,35	16	5	3-20102
M2	0,40	16	5	3-20102
M2.2	0,40	16	5	3-20102
M2.3	0,40	16	5	3-20102
M2.5	0,45	16	5	3-20102
M2.6	0,45	16	5	3-20102
M3	0,50	20	5	3-20102
M3.5	0,60	20	5	3-20102
M4	0,70	20	5	3-20102
M4.5	0,75	20	7	3-20102
M5	0,80	20	7	3-20102
M6	1,00	20	7	3-20102
M7	1,00	25	9	3-20102
M8	1,25	25	9	3-20102
M9	1,25	25	9	3-20102
M10	1,50	30	11	3-20102
M11	1,50	30	11	3-20102
M12	1,75	38	14	3-20102
M14	2,00	38	14	3-20102
M16	2,00	45	18	3-20102

Ø	Steigung Pitch mm	Außen- Ø Outside- Ø mm	Höhe Height mm	Art.-Nr.
M18	2,50	45	18	3-20102
M20	2,50	45	18	3-20102
M22	2,50	55	22	3-20102
M24	3,00	55	22	3-20102
M27	3,00	65	25	3-20102
M30	3,50	65	25	3-20102
M33	3,50	65	25	3-20102
M36	4,00	65	25	3-20102
M39	4,00	75	30	3-20102
M42	4,50	75	30	3-20102
M45	4,50	90	36	3-20102
M48	5,0	90	36	3-20102
M52	5,0	90	36	3-20102



Einsatzgebiete:

für Außengewinde in Stählen bis 900 N/mm² Festigkeit, in langspanenden Werkstoffen

Materials:

for external threads in steels up to 900 N/mm² tensile strength, in longchipping materials

witec® RUNDE SCHNEIDEISEN witec® ROUND SOLID DIES

DIN 5158

HSS
M2

G (BSP)

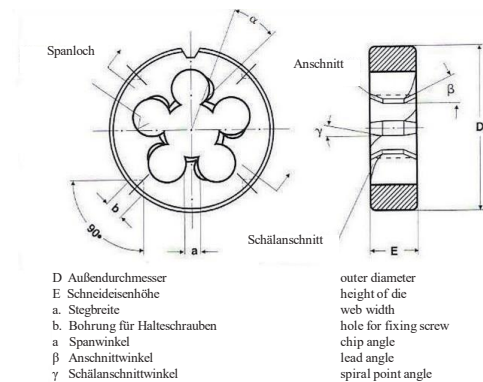
- Rohrgewinde ISO-Gewinde DIN 228
- DIN EN 24231 (DIN 5158)
- gas threads ISO-thread DIN 228
- DIN EN 24231 (DIN 5158)

INFOBOX



Ø "	Außen- Ø Outside- Ø mm	Art.-Nr.
G 1/8x28	30x11	3-20103-R
G 1/4x19	38x10	3-20103-R
G 3/8x19	45x14	3-20103-R
G 1/2x14	45x14	3-20103-R
G 5/8x14	55x16	3-20103-R
G 3/4x14	55x16	3-20103-R
G 7/8x14	65x18	3-20103-R
G 1x11	65x18	3-20103-R
G 1 1/8x11	70x20	3-20103-R
G 1 1/4x11	70x20	3-20103-R
G 1 3/8x11	85x22	3-20103-R
G 1 1/2x11	85x22	3-20103-R
G 1 3/4x11	100x22	3-20103-R
G 2x11	100x22	3-20103-R

Art.-Nr.: 3-20103



Einsatzgebiete:

für Außengewinde in Stählen bis 900 N/mm² Festigkeit, in langspanenden Werkstoffen

Materials:

for external threads in steels up to 900 N/mm² tensile strength, in longchipping materials

witec® RUNDE SCHNEIDEISEN witec® ROUND SOLID DIES

DIN 223

HSS
M2

METRISCH
METRIC

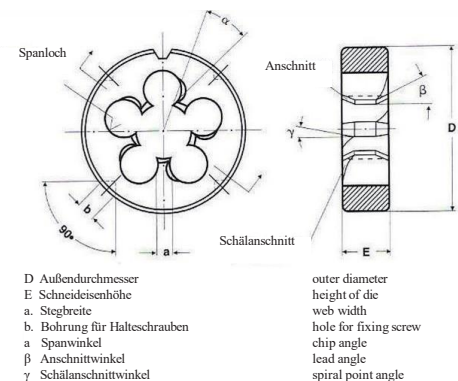
- metrisches ISO-Gewinde DIN 13
- DIN 223 (DIN EN 22568 B), Toleranz 6g
- metric ISO-thread DIN 13
- DIN 223 (DIN EN 22568 B), tolerance 6g

INFOBOX



Art.-Nr.: 3-20119

Ø	Steigung Pitch mm	Außen- Ø Outside- Ø mm	Höhe Height mm	Art.-Nr.
M3	0,50	25x9	5	3-20119
M4	0,70	25x9	5	3-20119
M5	0,80	25x9	7	3-20119
M6	1,00	25x9	7	3-20119
M8	1,25	25x9	9	3-20119
M10	1,50	25x9	11	3-20119
M12	1,75	25x9	22	3-20119



Einsatzgebiete:

für Außengewinde in gut zerspanbaren Werkstoffen bis 800 N/mm², unlegierten und niedriglegierten Stählen

Materials:

for external threads in well chipping steels up to 800 N/mm², alloyed and low alloyed steels

witec® EINSCHNITTGEWINDEBOHRER

witec® Short MACHINE TAPS

DIN 352

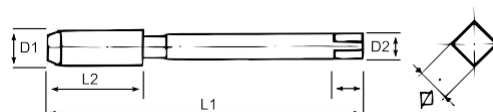
FORM B

HSS
M2

METRISCH
METRIC

- metrisches ISO-Gewinde DIN 13
- mit Schälanschnitt Form B
- für Hand- und Maschineneinsatz
- metric ISO-fine thread DIN 13
- with spiral point form B
- for hand and machine tapping

INFOBOX



Art.-Nr.: 3-27001

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
M3	0,50	40	11	3,5	2,7	3-27001
M4	0,70	45	13	4,5	3,4	3-27001
M5	0,80	48	16	6,0	4,9	3-27001
M6	1,00	50	19	6,0	4,9	3-27001
M8	1,25	56	22	6,0	4,9	3-27001
M10	1,50	70	24	7,0	5,5	3-27001
M12	1,75	75	29	9,0	7,0	3-27001
M3-M12 + KL + Halter						3-27001

Einsatzgebiete:

für Durchgangslöcher in Stählen bis 800 N/mm² Festigkeit

Materials:

for through holes in steels up to 800 N/mm² tensile strength

witec® EINSCHNITTGEWINDEBOHRER witec® Short MACHINE TAPS

DIN 352

FORM C 35°

HSS-Co5%
M35

METRISCH
METRIC

- metrisches ISO-Gewinde DIN 13
- Form C 35°
- für Hand- und Maschineneinsatz
- metric ISO-fine thread DIN 13
- form C 35°
- for hand and machine tapping

INFOBOX



Art.-Nr.: 3-27002

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
M3	0,50	40	11	3,5	2,7	3-27002
M4	0,70	45	13	4,5	3,4	3-27002
M5	0,80	48	16	6,0	4,9	3-27002
M6	1,00	50	19	6,0	4,9	3-27002
M8	1,25	56	22	6,0	4,9	3-27002
M10	1,50	70	24	7,0	5,5	3-27002
M12	1,75	75	29	9,0	7,0	3-27002

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 800 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 800 N/mm² tensile strength

witec® EINSCHNITTGEWINDEBOHRER witec® Short MACHINE TAPS

DIN 5157

FORM D

HSS-G

G / (BSP)

- G / (BSP) ISO-Gewinde DIN 5157
- Form D
- für Hand- und Maschineneinsatz
- G / (BSP) ISO-thread DIN 5157
- form D
- for hand and machine tapping

INFOBOX



Art.-Nr.: 3-27003

Ø D1 "	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
G 1/8	28	63	20	7	5,5	3-27003
G 1/4	19	70	22	11	9,0	3-27003
G 3/8	19	70	22	12	9,0	3-27003
G 1/2	14	80	22	16	12,0	3-27003
G 3/4	14	90	22	20	16,0	3-27003
G 1	11	100	25	25	20,0	3-27003
G 1.1/4	11	125	40	32	24,0	3-27003
G 1.1/2	11	140	40	36	29,0	3-27003
G 1.3/4	11	140	40	40	32,0	3-27003
G 2	11	160	40	45	35,0	3-27003
G 2.1/4	11	160	40	50	39,0	3-27003
G 2.1/2	11	160	40	50	39,0	3-27003
G 2.3/4	11	160	40	50	39,0	3-27003
G 3	11	160	40	50	39,0	3-27003
G 3.1/2	11	180	45	56	44,0	3-27003
G 4	11	180	45	56	44,0	3-27003

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 800 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 800 N/mm² tensile strength

witec® EINSCHNITTGEWINDEBOHRER witec® Short MACHINE TAPS

DIN 2181

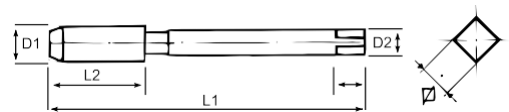
FORM D

HSS-G

METRISCHFEIN
METRIC FINE

- metrisch ISO-Feingewinde DIN 13
- mit Schälanschnitt Form D
- für Hand- und Maschineneinsatz
- metric ISO-fine thread DIN 13
- with spiral point form D
- for hand and machine tapping

INFOBOX



Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
M6x0.75	0,75	50	14	6,0	4,9	3-27004
M8x0.75	0,75	50	19	6,0	4,9	3-27004
M8x1.00	1,00	56	22	6,0	4,9	3-27004
M9x0.75	0,75	56	19	7,0	5,5	3-27004
M9x1.00	1,00	63	20	7,0	5,5	3-27004
M10x0,75	0,75	63	20	7,0	5,5	3-27004
M10x1.00	1,00	63	20	7,0	5,5	3-27004
M10x1.25	1,25	70	24	7,0	5,5	3-27004
M12x0,50	0,50	70	22	9,0	7,0	3-27004
M12x0,75	0,75	70	22	9,0	7,0	3-27004
M12x1.00	1,00	70	22	9,0	7,0	3-27004
M12x1.25	1,25	70	22	9,0	7,0	3-27004
M12x1.50	1,50	70	22	9,0	7,0	3-27004
M13x1.00	1,00	70	22	11,0	9,0	3-27004
M13x1.50	1,50	70	22	11,0	9,0	3-27004
M14x1.00	1,00	70	22	11,0	9,0	3-27004
M14x1.25	1,25	70	22	11,0	9,0	3-27004
M14x1.50	1,50	70	22	11,0	9,0	3-27004
M15x1.50	1,50	70	22	12,0	9,0	3-27004
M16x1.50	1,50	70	22	12,0	9,0	3-27004
M18x1.00	1,00	80	22	14,0	11,0	3-27004
M18x1.50	1,50	80	22	14,0	11,0	3-27004
M20x1.50	1,50	80	22	16,0	12,0	3-27004
M20x2,00	2,00	80	22	16,0	12,0	3-27004
M22x1.50	1,50	80	22	18,0	14,5	3-27004
M22x2,00	2,00	80	22	18,0	14,5	3-27004
M24x1.50	1,50	90	22	18,0	14,5	3-27004
M24x2,00	2,00	90	22	18,0	14,5	3-27004
M25x1,50	1,50	90	22	18,0	14,5	3-27004
M26x1,50	1,50	90	22	18,0	14,5	3-27004
M27x1,50	1,50	90	22	20,0	16,0	3-27004
M28x1,50	1,50	90	22	20,0	16,0	3-27004
M30x1,50	1,50	90	22	22,0	18,0	3-27004
M30x2,00	2,00	90	22	22,0	18,0	3-27004
M32x1,50	1,50	90	22	22,0	18,0	3-27004

Art.-Nr.: 3-27004

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 800 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 800 N/mm² tensile strength

witec® HANDGEWINDEBOHRER witec® HAND TAPS

DIN 352

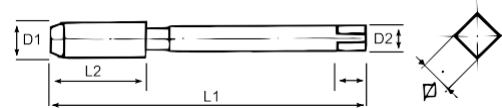
HSS
M2

METRISCH
METRIC

ISO 2/6H

INFOBOX

- metrisches ISO-Gewinde DIN 13
- Sätze bestehend aus:
Vor-, Mittel- und Fertigschneider
- ab M8 mit Zentrierspitze
- metric ISO-fine thread DIN 13
- sets consisting of:
first taper tap, second tap and bottoming tap
- from M 8 and above with center tip



Art.-Nr.: 3-27090

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
M1	0,25	32	5,5	2,5	2,1	3-27090
M1,1	0,25	32	5,5	2,5	2,1	3-27090
M1,2	0,25	32	5,5	2,5	2,1	3-27090
M1,4	0,3	32	7	2,5	2,1	3-27090
M1,6	0,35	32	8	2,5	2,1	3-27090
M1,7	0,35	70	24	7,0	5,5	3-27090
M1,8	0,35	32	8	2,5	2,1	3-27090
M2	0,40	36	8	2,8	2,1	3-27090
M2,2	0,45	36	9	2,8	2,1	3-27090
M2,3	0,40	36	9	2,8	2,1	3-27090
M2,5	0,45	40	9	2,8	2,1	3-27090
M2,6	0,45	40	9	2,8	2,1	3-27090
M3,0	0,50	40	11	3,5	2,7	3-27090
M3,5	0,60	45	13	4,0	3,0	3-27090
M4,0	0,70	45	13	4,5	3,4	3-27090
M4,5	0,75	50	16	6,0	4,9	3-27090
M5	0,80	50	16	6,0	4,9	3-27090
M6	1,00	50	19	6,0	4,9	3-27090
M7	1,00	50	19	6,0	4,9	3-27090
M8	1,25	56	22	6,0	4,9	3-27090
M9	1,25	63	22	7,0	6,5	3-27090
M10	1,50	70	24	7,0	5,5	3-27090
M11	1,50	70	24	8,0	6,2	3-27090
M12	1,75	75	29	9,0	7,0	3-27090

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 900 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 900 N/mm² tensile strength

witec® HANDGEWINDEBOHRER

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DIN 2181

HSS
M2

METRISCH
METRIC

ISO 2/6H

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt./square mm	Art.-Nr.
M14	2,00	80	30	11	9	3-27090
M15	2,00	80	32	12	9	3-27090
M16	2,00	80	32	12	9	3-27090
M18	2,50	95	40	14	11	3-27090
M20	2,50	95	40	16	12	3-27090
M22	2,50	100	40	18	14,5	3-27090
M24	3,00	110	50	18	14,5	3-27090
M27	3,00	110	50	20	16	3-27090
M30	3,50	126	56	22	18	3-27090
M33	3,50	125	56	25	20	3-27090
M36	4,00	150	63	28	22	3-27090
M39	4,00	150	63	32	24	3-27090
M42	4,50	150	63	32	24	3-27090
M45	4,50	160	70	36	29	3-27090
M48	5,00	180	75	36	29	3-27090
M52	5,00	180	75	40	32	3-27090
M56	5,50	200	85	45	35	3-27090
M60	5,50	200	85	45	35	3-27090
M64	6,00	220	90	50	39	3-27090
M68	6,00	220	90	50	39	3-27090
M72	6,00	240	80	50	39	3-27090
M76	6,00	240	80	50	39	3-27090
M80	6,00	260	85	50	39	3-27090
M84	6,00	260	65	50	39	3-27090
M88	6,00	260	85	50	39	3-27090
M90	6,00	260	85	50	39	3-27090
M92	6,00	280	90	56	44	3-27090
M96	6,00	280	90	56	44	3-27090
M100	6,00	280	90	56	44	3-27090
M3-M12						3-27090
M3-M12 + Halter / Holder						3-27090
M3-M12 + Klernlochbohrer / Core drills + Halter / Holder						3-2090

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 900 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 900 N/mm² tensile strength

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METRISCHFEIN
METRIC FINE

ISO 2/6H

- metrisches ISO-Feingewinde
- Sätze bestehend aus:
Vor- und Fertigschneider
- metric ISO-fine thread
- sets consisting of:
first taper tap and bottoming tap

INFOBOX



Art.-Nr.: 3-27092

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt./square mm	Art.-Nr.
M2	0,35	40	9	2,8	2,1	3-27092
M2	0,35	40	9	2,8	2,1	3-27092
M3	0,35	40	9	3,5	2,7	3-27092
M3	0,35	45	10	4	3	3-27092
M4	0,35	45	10	4,5	3,4	3-27092
M4	0,50	45	10	4,5	3,4	3-27092
M4,5	0,50	50	12	6	4,9	3-27092
M5	0,50	50	12	6	4,9	3-27092
M5	0,75	50	12	6	4,9	3-27092
M5,5	0,50	50	12	6	4,9	3-27092
M6	0,50	50	14	6	4,9	3-27092
M6	0,75	50	14	6	4,9	3-27092
M7	0,50	50	14	6	4,9	3-27092
M7	0,75	50	14	6	4,9	3-27092
M8	0,50	80	19	6	4,9	3-27092
M8	0,75	50	19	6	4,9	3-27092
M8	1,00	56	22	6	4,9	3-27092
M9	0,50	56	19	7	5,5	3-27092
M9	0,75	56	19	7	5,5	3-27092
M9	1,00	63	20	7	5,5	3-27092
M10	0,50	63	20	7	5,5	3-27092
M10	0,75	63	20	7	5,5	3-27092
M10	1,00	63	20	7	5,5	3-27092
M10	1,25	70	24	7	5,5	3-27092
M11	0,75	63	20	8	6,2	3-27092
M11	1,00	63	20	8	6,2	3-27092
M11	1,25	63	22	8	6,2	3-27092

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 900 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 900 N/mm² tensile strength

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DIN 2181

HSS
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METRISCHFEIN
METRIC FINE

ISO 2/6H

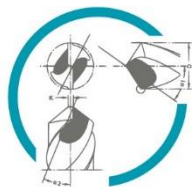
Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt./square mm	Art.-Nr.
M12	0,50	70	22	9	7	3-27092
M12	0,75	70	22	9	7	3-27092
M12	1,00	70	22	9	7	3-27092
M12	1,25	70	22	9	7	3-27092
M12	1,50	70	22	9	7	3-27092
M13	0,50	70	22	11	9	3-27092
M13	0,75	70	22	11	9	3-27092
M13	1,00	70	22	11	9	3-27092
M13	1,50	70	22	11	9	3-27092
M14	0,50	70	22	11	9	3-27092
M14	0,75	70	22	11	9	3-27092
M14	1,00	70	22	11	9	3-27092
M14	1,25	70	22	11	9	3-27092
M14	1,50	70	22	11	9	3-27092
M15	0,75	70	22	12	9	3-27092
M15	1,00	70	22	12	9	3-27092
M15	1,50	70	22	12	9	3-27092
M16	0,50	70	22	12	9	3-27092
M16	0,75	70	22	12	9	3-27092
M16	1,00	70	22	12	9	3-27092
M16	1,25	70	22	12	9	3-27092
M16	1,50	70	22	12	9	3-27092
M17	1,00	70	22	12	9	3-27092
M17	1,50	70	22	12	9	3-27092
M18	0,50	80	22	14	11	3-27092
M18	0,75	80	22	14	11	3-27092
M18	1,00	80	22	14	11	3-27092
M18	1,25	80	22	14	11	3-27092
M18	1,50	80	22	14	11	3-27092
M18	2,00	80	22	14	11	3-27092
M19	1,00	80	22	14	11	3-27092
M19	1,50	80	22	14	11	3-27092
M20	0,50	80	22	16	12	3-27092
M20	0,75	80	22	16	12	3-27092
M20	1,00	80	22	16	12	3-27092
M20	1,25	80	22	16	12	3-27092
M20	1,50	80	22	16	12	3-27092
M20	2,00	80	22	16	12	3-27092
M21	1,00	80	22	16	12	3-27092

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 900 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 900 N/mm² tensile strength



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METRIC FINE

ISO 2/6H

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt./square mm	Art.-Nr.
M21	1,50	80	22	16	12	3-27092
M21	0,50	80	22	16	12	3-27092
M22	0,75	80	22	18	14,5	3-27092
M22	1,00	80	22	18	14,5	3-27092
M22	1,25	80	22	18	14,5	3-27092
M22	1,50	80	22	18	14,5	3-27092
M22	2,00	80	22	18	14,5	3-27092
M22	1,00	80	22	18	14,5	3-27092
M23	1,50	80	22	18	14	3-27092
M23	0,50	80	22	18	14,5	3-27092
M24	0,75	90	22	18	14,5	3-27092
M24	1,00	90	22	18	14,5	3-27092
M24	1,25	90	22	18	14,5	3-27092
M24	1,50	90	22	18	14,5	3-27092
M24	2,00	90	22	18	14,5	3-27092
M24	1,00	90	22	18	14,5	3-27092
M25	1,50	90	22	18	14,5	3-27092
M25	1,00	90	22	18	14,5	3-27092
M26	1,50	90	22	18	14,5	3-27092
M26	2,00	90	22	18	14,5	3-27092
M26	1,00	90	22	18	14,5	3-27092
M27	1,50	90	22	20	16	3-27092
M27	2,00	90	22	20	16	3-27092
M27	1,00	90	22	20	16	3-27092
M28	1,50	90	22	20	16	3-27092
M28	2,00	90	22	20	16	3-27092
M28	1,50	90	22	20	16	3-27092
M29	1,00	90	22	22	18	3-27092
M30	1,50	90	22	22	18	3-27092
M30	2,00	90	22	22	18	3-27092
M30	2,50	90	22	22	18	3-27092
M30	3,00	125	56	22	18	3-27092
M30	1,00	125	58	22	18	3-27092
M32	1,50	90	22	22	18	3-27092
M32	2,00	90	22	22	18	3-27092
M32	3,00	125	58	22	18	3-27092
M32	1,50	100	25	25	20	3-27092
M33	2,00	100	25	25	20	3-27092
M33	3,00	125	56	25	20	3-27092

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 900 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 900 N/mm² tensile strength

witec® HANDGEWINDEBOHRER

witec® HAND TAPS

DIN 2181

HSS
M2

METRISCHFEIN
METRIC FINE

ISO 2/6H

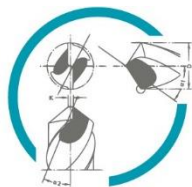
Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt./square mm	Art.-Nr.
M33	3,00	125	56	25	20	3-27092
M34	1,00	100	25	28	22	3-27092
M34	1,50	100	25	28	22	3-27092
M34	2,00	125	40	28	22	3-27092
M35	1,00	100	25	28	22	3-27092
M35	1,50	100	25	28	22	3-27092
M35	2,00	125	40	28	22	3-27092
M36	1,00	100	25	28	22	3-27092
M36	1,50	100	25	28	22	3-27092
M36	2,00	125	40	28	22	3-27092
M36	3,00	125	40	28	22	3-27092
M37	1,50	100	25	28	22	3-27092
M38	1,00	100	25	28	22	3-27092
M38	1,50	100	25	28	22	3-27092
M38	2,00	125	40	28	22	3-27092
M38	3,00	125	40	32	22	3-27092
M39	1,50	110	25	32	24	3-27092
M39	2,00	125	40	32	24	3-27092
M39	3,00	125	40	32	24	3-27092
M40	1,00	110	25	32	24	3-27092
M40	1,50	110	25	32	24	3-27092
M40	2,00	125	40	32	24	3-27092
M40	3,00	125	40	32	24	3-27092
M42	1,00	110	25	32	24	3-27092
M42	1,50	110	25	32	24	3-27092
M42	2,00	125	40	32	24	3-27092
M42	3,00	125	40	32	24	3-27092
M44	1,50	110	25	36	29	3-27092
M44	2,00	125	40	36	29	3-27092
M45	1,00	110	25	36	29	3-27092
M45	1,50	110	25	36	29	3-27092
M45	2,00	125	40	36	29	3-27092
M45	3,00	125	40	36	29	3-27092
M46	1,50	140	40	36	29	3-27092
M48	1,00	140	40	36	29	3-27092
M48	1,50	140	40	36	29	3-27092
M48	2,00	140	40	36	29	3-27092
M48	3,00	140	40	36	29	3-27092
M50	1,50	140	40	36	29	3-27092

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 900 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 900 N/mm² tensile strength



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METRIC FINE

ISO 2/6H

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt./square mm	Art.-Nr.
M50	2,00	140	40	36	29	3-27092
M50	3,00	140	40	36	29	3-27092
M52	1,50	140	40	40	32	3-27092
M52	2,00	140	40	40	32	3-27092
M52	3,00	140	40	40	32	3-27092
M54	1,00	140	40	40	32	3-27092
M54	1,50	140	40	40	32	3-27092
M54	2,00	140	40	40	32	3-27092
M54	3,00	140	40	40	32	3-27092
M54	4,00	180	50	40	32	3-27092
M55	1,50	140	32	40	32	3-27092
M55	2,00	140	36	40	32	3-27092
M55	3,00	140	40	40	32	3-27092
M55	4,00	180	50	40	32	3-27092
M56	1,00	140	32	40	32	3-27092
M56	1,50	140	32	40	32	3-27092
M56	2,00	140	36	40	32	3-27092
M56	3,00	140	40	40	32	3-27092
M56	4,00	180	50	40	32	3-27092
M58	1,00	130	32	45	35	3-27092
M58	1,50	160	32	45	35	3-27092
M58	2,00	160	36	45	35	3-27092
M58	3,00	160	40	45	35	3-27092
M58	4,00	200	55	45	35	3-27092
M60	1,50	160	34	45	35	3-27092
M60	2,00	160	36	45	35	3-27092
M60	3,00	160	40	45	35	3-27092
M60	4,00	200	55	45	35	3-27092
M62	1,50	160	34	50	39	3-27092
M62	2,00	160	36	50	39	3-27092
M62	3,00	180	45	50	39	3-27092
M62	4,00	220	55	50	39	3-27092
M63	1,50	160	32	50	39	3-27092
M64	1,50	160	34	50	39	3-27092
M64	2,00	160	36	50	39	3-27092
M64	3,00	180	45	50	39	3-27092
M64	4,00	220	60	50	39	3-27092
M65	1,50	160	34	50	39	3-27092
M65	2,00	160	36	50	39	3-27092

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 900 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 900 N/mm² tensile strength

witec® HANDGEWINDEBOHRER

witec® HAND TAPS

DIN 2181

HSS
M2

METRISCHFEIN
METRIC FINE

ISO 2/6H

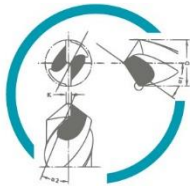
Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt./square mm	Art.-Nr.
M65	3,00	180	45	50	39	3-27092
M65	4,00	220	60	50	39	3-27092
M68	1,50	160	36	50	39	3-27092
M68	2,00	160	40	50	39	3-27092
M68	3,00	180	50	50	39	3-27092
M68	4,00	220	60	50	39	3-27092
M70	1,50	160	36	50	39	3-27092
M70	2,00	160	40	50	39	3-27092
M70	3,00	200	50	50	39	3-27092
M70	4,00	240	60	50	39	3-27092
M72	1,50	160	36	50	39	3-27092
M72	2,00	160	40	50	39	3-27092
M72	3,00	200	50	50	39	3-27092
M72	4,00	240	60	50	39	3-27092
M74	1,50	160	36	50	39	3-27092
M74	2,00	160	40	50	39	3-27092
M74	3,00	200	50	50	39	3-27092
M74	4,00	240	60	50	39	3-27092
M75	1,50	160	36	50	39	3-27092
M75	2,00	160	40	50	39	3-27092
M75	3,00	200	50	50	39	3-27092
M75	4,00	240	60	50	39	3-27092
M76	1,50	160	36	50	39	3-27092
M76	2,00	160	40	50	39	3-27092
M76	3,00	220	50	50	39	3-27092
M76	4,00	260	60	50	39	3-27092
M78	1,50	160	36	50	39	3-27092
M78	2,00	160	40	50	39	3-27092
M78	3,00	220	55	50	39	3-27092
M78	4,00	260	65	50	39	3-27092
M80	1,50	160	36	50	39	3-27092
M80	2,00	160	40	50	39	3-27092
M80	3,00	220	55	50	39	3-27092
M80	4,00	260	65	50	39	3-27092
M82	1,50	160	36	50	39	3-27092
M82	2,00	160	40	50	39	3-27092
M82	3,00	220	55	50	39	3-27092
M82	4,00	260	65	50	39	3-27092
M84	1,50	160	36	50	39	3-27092

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 900 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 900 N/mm² tensile strength



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DIN 2181

HSS
M2

METRISCHFEIN
METRIC FINE

ISO 2/6H

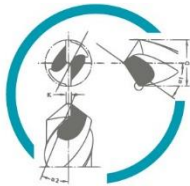
Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt./square mm	Art.-Nr.
M84	2,00	160	40	50	39	3-27092
M84	3,00	220	55	50	39	3-27092
M84	4,00	260	65	50	39	3-27092
M85	1,50	160	36	50	39	3-27092
M85	2,00	160	40	50	39	3-27092
M85	3,00	220	55	50	39	3-27092
M85	4,00	260	65	50	39	3-27092
M86	1,50	160	36	50	39	3-27092
M86	2,00	160	40	50	39	3-27092
M86	3,00	220	55	50	39	3-27092
M86	4,00	200	65	50	39	3-27092
M88	1,50	160	38	50	39	3-27092
M88	2,00	160	40	50	39	3-27092
M88	3,00	220	55	50	39	3-27092
M88	4,00	260	65	50	39	3-27092
M90	1,50	160	38	50	39	3-27092
M90	2,00	160	40	50	39	3-27092
M90	3,00	220	55	50	39	3-27092
M90	4,00	260	65	50	39	3-27092
M92	1,50	180	40	56	44	3-27092
M92	2,00	180	45	56	44	3-27092
M92	3,00	240	60	56	44	3-27092
M92	4,00	280	70	56	44	3-27092
M95	1,50	180	40	56	44	3-27092
M95	2,00	180	45	56	44	3-27092
M95	3,00	240	60	56	44	3-27092
M95	4,00	280	70	56	44	3-27092
M96	1,50	180	40	56	44	3-27092
M96	2,00	180	45	56	44	3-27092
M96	3,00	240	60	56	44	3-27092
M96	4,00	280	70	56	44	3-27092
M98	1,50	180	40	56	44	3-27092
M98	2,00	180	45	56	44	3-27092
M98	3,00	240	60	56	44	3-27092
M98	4,00	280	70	56	44	3-27092
M100	1,50	180	45	56	44	3-27092
M100	2,00	180	50	56	44	3-27092
M100	3,00	240	65	56	44	3-27092
M100	4,00	280	75	56	44	3-27092

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 900 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 900 N/mm² tensile strength



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DIN 2181

HSS
M2

METRISCHFEIN
METRIC FINE

ISO 2/6H

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt./square mm	Art.-Nr.
M105	1,50	180	45	56	44	3-27092
M105	2,00	180	50	56	44	3-27092
M105	3,00	240	65	56	44	3-27092
M105	4,00	280	75	56	44	3-27092
M110	1,50	180	45	56	44	3-27092
M110	2,00	180	50	56	44	3-27092
M110	3,00	240	65	56	44	3-27092
M110	4,00	280	75	56	44	3-27092

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 900 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 900 N/mm² tensile strength

witec® HANDGEWINDEBOHRER witec® HAND TAPS

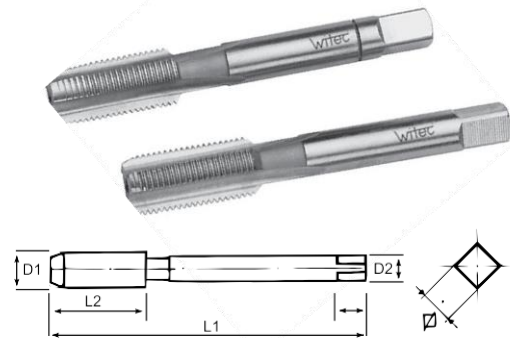
DIN 5157

HSS
M2

G (BSP)

DIN ISO 228

- INFOBOX**
- HSS G (BSP) ISO-Gewinde DIN 228
 - Sätze bestehend aus:
Vor- und Fertigschneider for Rohrgewinde
 - HSS G (BSP) ISO-fine thread DIN 228
 - sets consisting of:
first taper tap and bottoming tap for pipe threads



Art.-Nr.: 3-27093

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
G 1/8"	28	63	20	7	6,5	3-27093
G 1/4"	19	70	22	11	9	3-27093
G 3/8"	19	70	22	12	9	3-27093
G 1/2"	14	80	22	16	12	3-27093
G 5/8"	14	80	22	18	14,5	3-27093
G 3/4"	14	90	22	20	16	3-27093
G 7/8"	14	90	22	22	18	3-27093
G 1"	11	100	25	25	20	3-27093
G 1.1/8"	11	125	40	28	22	3-27093
G 1.1/4"	11	125	40	32	24	3-27093
G 1.3/8"	11	140	40	36	29	3-27093
G 1.1/2"	11	140	40	36	29	3-27093
G 1.5/8"	11	150	40	40	32	3-27093
G 1.3/4"	11	140	40	40	32	3-27093
G 2"	11	160	40	45	35	3-27093
G 2.1/4"	11	160	40	50	39	3-27093
G 2.1/2"	11	160	40	50	39	3-27093
G 2.3/4"	11	160	40	50	39	3-27093
G 3"	11	160	40	50	39	3-27093
G 3.1/2"	11	180	45	56	44	3-27093
G 4"	11	180	45	56	44	3-27093

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 800 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 800 N/mm² tensile strength

witec® HANDGEWINDEBOHRER witec® HAND TAPS

DIN 352

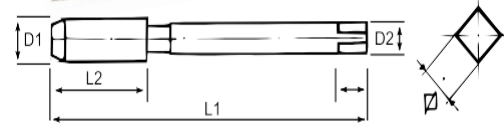
HSS
M2

UNC

ANSI B 1.1

- HSS(M2)
- UNC americanisches Grobgewinde DIN 352
- Sätze bestehend aus:
Vor- Mittel- und Fertigschneider für Rohrgewinde
- HSS(M2)
- UNC unified coarse thread DIN 352
- sets consisting of:
first taper tap, second tap and bottoming tap

INFOBOX



Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
UNC No.1	64	32	10	2,5	2,1	3-27095
UNC No.2	56	36	11	2,8	2,1	3-27095
UNC No.3	48	36	11	2,8	2,1	3-27095
UNC No.4	40	40	12	3,5	2,7	3-27095
UNC No.5	40	40	12	3,5	2,7	3-27095
UNC No.6	32	45	14	4	3	3-27095
UNC No.8	32	45	14	4,5	3,4	3-27095
UNC No.10	24	50	16	6	4,9	3-27095
UNC No.12	24	50	18	6	4,9	3-27095
UNC 1/4"	20	50	19	6	4,9	3-27095
UNC 5/16"	18	56	22	6	4,9	3-27095
UNC 3/8"	16	70	24	7	5,5	3-27095
UNC 7/16"	14	70	24	8	6,2	3-27095
UNC 1/2"	13	75	29	9	7	3-27095
UNC 9/16"	12	80	30	11	9	3-27095
UNC 5/8"	11	80	32	12	9	3-27095
UNC 3/4"	10	95	40	14	11	3-27095
UNC 7/8"	9	100	40	18	14,5	3-27095
UNC 1"	8	110	50	18	14,5	3-27095
UNC 1 1/8"	7	132	56	22	18	3-27095
UNC 1 1/4"	7	132	56	22	18	3-27095
UNC 1 3/8"	6	150	63	28	22	3-27095
UNC 1 1/2"	6	150	63	32	24	3-27095
UNC 1 5/8"	5	160	70	32	24	3-27095
UNC 1 3/4"	5	160	70	36	29	3-27095
UNC 1 7/8"	4,5	190	80	36	29	3-27095
UNC 2"	4,5	190	80	40	32	3-27095
UNC 2 1/4"	4,5	220	80	45	35	3-27095
UNC 2 1/2"	4	220	80	50	39	3-27095
UNC 2 3/4"	4	240	80	50	39	3-27095
UNC 3 "	4	260	80	50	39	3-27095

Art.-Nr.: 3-27094

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 800 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 800 N/mm² tensile strength

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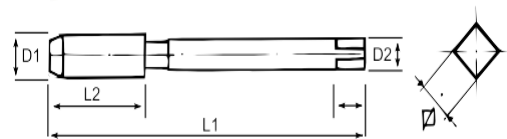
DIN 2181

HSS
M2

UNF

ANSI B 1.1

- INFOBOX**
- HSS(M2)
 - UNF americanisches Feingewinde DIN 2181
 - Sätze bestehend aus:
Vor- und Fertigschneider for Rohrgewinde
 - HSS(M2)
 - UNF american Fine thread DIN 2181
 - sets consisting of:
first taper tap and bottoming tap



Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
UNF Nr.0	80	28	8	2,5	2,1	3-27095
UNF Nr.1	72	32	9	2,8	2,1	3-27095
UNF Nr.2	64	32	10	2,8	2,1	3-27095
UNF Nr.3	56	32	10	2,8	2,1	3-27095
UNF Nr.4	48	36	11	3,5	2,7	3-27095
UNF Nr.5	44	36	11	3,5	2,7	3-27095
UNF Nr.6	40	40	12	4,5	3,4	3-27095
UNF Nr.8	36	40	12	4,5	3,4	3-27095
UNF Nr.10	32	45	14	6	4,9	3-27095
UNF Nr.12	28	50	14	6	4,9	3-27095
UNF 1/4"	28	50	18	6	4,9	3-27095
UNF 5/16"	24	56	22	6	4,9	3-27095
UNF 3/8"	24	63	22	7	5,5	3-27095
UNF 7/16"	20	63	22	8	6,2	3-27095
UNF 1/2"	20	75	24	9	7	3-27095
UNF 9/16"	18	80	28	11	9	3-27095
UNF 5/8"	18	80	28	12	9	3-27095
UNF 3/4"	16	95	32	14	11	3-27095
UNF 7/8"	14	100	36	18	14,5	3-27095
UNF 1"x12	12	110	40	18	14,5	3-27095
UNF 1"x14	14	110	40	18	14,5	3-27095
UNF 1 1/8"	12	110	50	22	18	3-27095
UNF 1 1/4"	12	132	56	22	18	3-27095
UNF 1 3/8"	12	132	56	28	22	3-27095
UNF 1 1/2"	12	150	63	32	24	3-27095

Art.-Nr.: 3-27095

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 800 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 800 N/mm² tensile strength

witec® HANDGEWINDEBOHRER witec® HAND TAPS

DIN 2181

HSS
M2

UNF

ANSI B 1.1

- INFOBOX**
- HSS(M2)
 - BSF Btitisch-Standard-Feingewinde DIN 2181
 - Sätze bestehend aus:
Vor- und Fertigschneider for Rohrgewinde
 - HSS(M2)
 - BSF British-Standard Fine thread DIN 2181
 - sets consisting of:
first taper tap and bottoming tap



Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
BSF 3/16"	32	50	14	6	4,9	3-27097
BSF 1/4"	26	50	18	6	4,9	3-27097
BSF 5/16"	22	56	22	6	4,9	3-27097
BSF 3/8"	20	63	22	7	5,5	3-27097
BSF 7/16"	18	63	22	8	6,2	3-27097
BSF 1/2"	18	75	24	9	7	3-27097
BSF 9/16"	16	80	28	11	9	3-27097
BSF 5/8"	14	80	28	12	9	3-27097
BSF 3/4"	12	95	32	14	11	3-27097
BSF 7/8"	11	100	36	18	14,5	3-27097
BSF 1"	10	110	40	18	14,5	3-27097

Art.-Nr.: 3-27097

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 800 N/mm² Festigkeit

Materials:

for through and blind holes in steels up to 800 N/mm² tensile strength

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DIN 371

FORM B

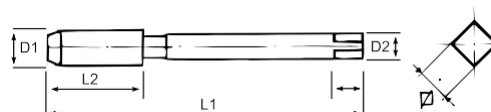
HSS-Co5%
M35

METRISCH
METRIC

- metrisches ISO-Gewinde DIN 13
- mit Schälanschnitt Form B
- mit verstärktem Schaft
- blank oder TiN-Beschichtung

INFOBOX

- metric ISO-fine thread DIN 13
- with spiral point form B
- with reinforced shank
- bright finished or TiN-coated



Art.-Nr.: 3-24010 / 3-24010 TiN

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
M2	0,40	45	8	2,8	2,1	3-24010
M2,5	0,45	50	9	2,8	2,1	3-24010
M3	0,50	56	11	3,5	2,7	3-24010
M3,5	0,60	56	13	4,0	3	3-24010
M4	0,70	63	13	4,5	3,4	3-24010
M5	0,80	70	16	6,0	4,9	3-24010
M6	1,00	80	19	6,0	4,9	3-24010
M7	1,00	80	19	7,0	5,5	3-24010
M8	1,25	90	22	8,0	6,2	3-24010
M10	1,50	100	24	10,0	8,0	3-24010
Set	M3-M12					3-24010
Set	M3-M12 + Kernlochbohrer / core drills					3-24010

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
M2	0,40	45	8	2,8	2,1	3-24010 TiN
M2,5	0,45	50	9	2,8	2,1	3-24010 TiN
M3	0,50	56	11	3,5	2,7	3-24010 TiN
M3,5	0,60	56	13	4,0	3	3-24010 TiN
M4	0,70	63	13	4,5	3,4	3-24010 TiN
M5	0,80	70	16	6,0	4,9	3-24010 TiN
M6	1,00	80	19	6,0	4,9	3-24010 TiN
M7	1,00	80	19	7,0	5,5	3-24010 TiN
M8	1,25	90	22	8,0	6,2	3-24010 TiN
M10	1,50	100	24	10,0	8,0	3-24010 TiN
Set	M3-M12					3-24010 TiN
Set	M3-M12 + Kernlochbohrer / core drills					3-24010 TiN

Einsatzgebiete:

für Durchgangslöcher in Stählen bis 900 N/mm² Festigkeit, in langspanenden Werkstoffen

Materials:

for through holes in steels up to 900 N/mm² tensile strength, in longchipping materials

witec® MASCHINENGEWINDEBOHRER

witec® MACHINE TAPS

DIN 371

FORM C

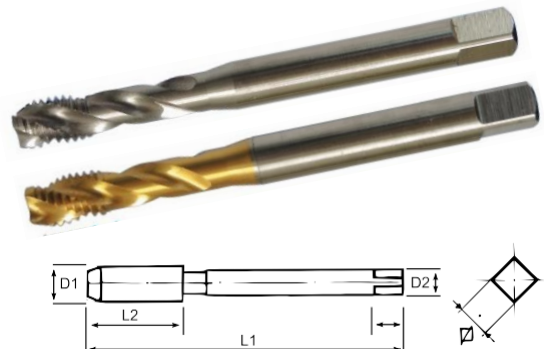
35°

HSS-Co5%
M35

METRISCH
METRIC

- metrisches ISO-Gewinde DIN 13
- rechtsgenutet 35° Form C
- mit verstärktem Schaft
- blank oder TiN-Beschichtung
- metric ISO-fine thread DIN 13
- with 35° spiral flutes form C
- with reinforced shank
- bright finished or TiN-coated

INFOBOX



Art.-Nr.: 3-24021 / TiN

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
M2	0,40	45	8	2,8	2,1	3-24021 / TiN
M2,5	0,45	50	9	2,8	2,1	3-24021 / TiN
M3	0,50	56	11	3,5	2,7	3-24021 / TiN
M3,5	0,60	56	13	4	3,0	3-24021 / TiN
M4	0,70	63	13	4,5	3,4	3-24021 / TiN
M5	0,80	70	16	6,0	4,9	3-24021 / TiN
M6	1,00	80	19	6,0	4,9	3-24021 / TiN
M7	1,00	80	19	7,0	5,5	3-24021 / TiN
M8	1,25	90	22	8,0	6,2	3-24021 / TiN
M10	1,50	100	24	10,0	8,0	3-24021 / TiN
Set	M3-M12					3-24021 / TiN

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 1000 N/mm² Festigkeit, in langspanenden Werkstoffen

Materials:

for through and blind holes in steels up to 1000 N/mm² tensile strength, in longchipping materials

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DIN 376

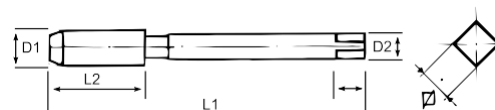
FORM B

HSS-Co5%
M35

METRISCH
METRIC

- metrisches ISO-Gewinde DIN 13
- mit Schälanschnitt Form B
- blank oder TiN-Beschichtung
- metric ISO-fine thread DIN 13
- with spiral point form B
- bright finished or TiN-coated

INFOBOX



Art.-Nr.: 3-24100 / 3-24100 TiN

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
M3	0,50	56	11	2,2	-	3-24100 / 3-24100 TiN
M4	0,70	63	13	2,8	2,1	3-24100 / 3-24100 TiN
M5	0,80	70	16	3,5	2,7	3-24100 / 3-24100 TiN
M6	1,00	80	19	4,5	3,4	3-24100 / 3-24100 TiN
M8	1,25	90	22	6,0	4,9	3-24100 / 3-24100 TiN
M10	1,50	100	24	7,0	5,5	3-24100 / 3-24100 TiN
M12	1,75	110	29	9,0	7,0	3-24100 / 3-24100 TiN
M14	2,00	110	30	11,0	9,0	3-24100 / 3-24100 TiN
M16	2,00	110	32	12,0	9,0	3-24100 / 3-24100 TiN
M18	2,50	125	34	14,0	11,0	3-24100 / 3-24100 TiN
M20	2,50	140	34	16,0	12,0	3-24100 / 3-24100 TiN
M22	2,50	140	34	18,0	14,5	3-24100 / 3-24100 TiN
M24	3,00	160	38	18,0	14,5	3-24100 / 3-24100 TiN
M27	3,00	160	38	20,0	16,0	3-24100
M30	3,50	180	35	22,0	18,0	3-24100
M33	3,50	180	35	25,0	20	3-24100
M36	4,00	200	40	28,0	22	3-24100
M39	4,00	200	40	32,0	24	3-24100
M42	4,50	200	45	32,0	24	3-24100
M45	4,50	220	45	36,0	29	3-24100
M48	5,00	250	50	36,0	29	3-24100
M52	5,00	250	50	40,0	32	3-24100

Einsatzgebiete:

für Durchgangslöcher in Stählen bis 900 N/mm² Festigkeit, in langspanenden Werkstoffen

Materials:

for through holes in steels up to 900 N/mm² tensile strength, in longchipping materials

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DIN 376

FORM C

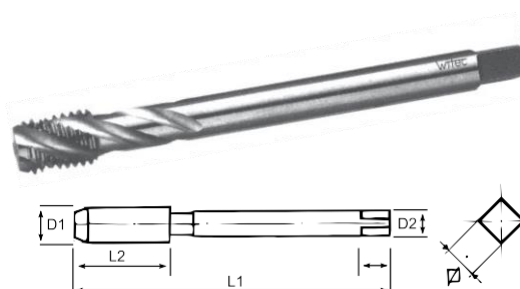
35°

HSS-Co5%
M35

METRISCH
METRIC

- metrisches ISO-Gewinde DIN 13
- rechtsgenutet 35° Form C
- blank oder TiN-Beschichtung
- metric ISO-fine thread DIN 13
- with 35° spiral flutes form C
- bright finished or TiN-coated

INFOBOX



Art.-Nr.: 3-24102 / TiN

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
M3	0,50	56	6	2,2	-	3-24102 / TiN
M4	0,70	63	7	2,8	2,1	3-24102 / TiN
M5	0,80	70	8	3,5	2,7	3-24102 / TiN
M6	1,00	80	10	4,5	3,4	3-24102 / TiN
M8	1,25	90	14	6,0	4,9	3-24102 / TiN
M10	1,50	100	16	7,0	5,5	3-24102 / TiN
M12	1,75	110	18	9,0	7,0	3-24102 / TiN
M14	2,00	110	20	11,0	9,0	3-24102 / TiN
M16	2,00	110	22	12,0	9,0	3-24102 / TiN
M18	2,50	125	25	14,0	11,0	3-24102 / TiN
M20	2,50	140	25	16,0	12,0	3-24102 / TiN
M22	2,50	140	27	18,0	14,5	3-24102 / TiN
M24	3,00	160	30	18,0	14,5	3-24102
M27	3,00	160	30	20,0	16,0	3-24102
M30	3,50	180	35	22,0	18,0	3-24102
M33	3,50	180	35	25,0	20	3-24102
M36	4,00	200	40	28,0	22	3-24102
M39	4,00	200	40	32,0	24	3-24102
M42	4,50	200	45	32,0	24	3-24102
M45	4,50	220	45	36,0	29	3-24102
M48	5,00	250	50	36,0	29	3-24102
M52	5,00	250	50	40,0	32	3-24102

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 1000 N/mm² Festigkeit,
in langspannenden Werkstoffen

Materials:

for through and blind holes in steels up to 1000 N/mm² tensile strength, in longchipping materials

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DIN 371

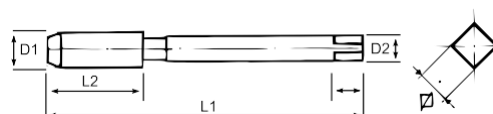
FORM B

HSS
M2

METRISCH
METRIC

- metrisches ISO-Gewinde DIN 13
- mit Schälanschnitt Form B
- mit verstärktem Schaft
- metric ISO-fine thread DIN 13
- with spiral point form B
- with reinforced shank

INFOBOX



Art.-Nr.: 3-25010 / 3-25010 TiN

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
M3	0,50	56	11	3,5	2,7	3-25010 / 3-25010 TiN
M4	0,70	63	13	4,5	3,4	3-25010 / 3-25010 TiN
M5	0,80	70	16	6,0	4,9	3-25010 / 3-25010 TiN
M6	1,00	80	19	6,0	4,9	3-25010 / 3-25010 TiN
M8	1,25	90	22	8,0	6,2	3-25010 / 3-25010 TiN
M10	1,50	100	24	10,0	8,0	3-25010 / 3-25010 TiN
Set	M3-M12					3-25010 / TiN
Set	M3-M12 + Kernlochbohrer / core drills					3-25010 / TiN

Einsatzgebiete:

für Durchgangslöcher in Stählen bis 800 N/mm² Festigkeit, in langspanenden Werkstoffen

Materials:

for through holes in steels up to 800 N/mm² tensile strength, in longchipping materials

witec® MASCHINENGEWINDEBOHRER witec® MACHINE TAPS

DIN 371

FORM C

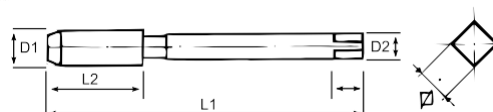
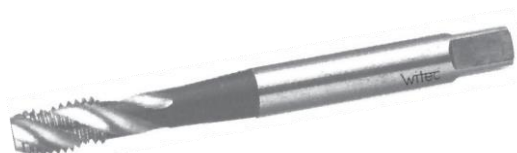
35°

HSS
M2

METRISCH
METRIC

- metrisches ISO-Gewinde DIN 13
- rechtsgenutet 35° Form C
- mit verstärktem Schaft
- metric ISO-fine thread DIN 13
- with 35° spiral flutes form C
- with reinforced shank

INFOBOX



Art.-Nr.: 3-25021 / 3- 25021 TiN

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
M3	0,50	56	11	3,5	2,7	3-25021 / 3-25021 TiN
M4	0,70	63	13	4,5	3,4	3-25021 / 3-25021 TiN
M5	0,80	70	16	6,0	4,9	3-25021 / 3-25021 TiN
M6	1,00	80	19	6,0	4,9	3-25021 / 3-25021 TiN
M8	1,25	90	22	8,0	6,2	3-25021 / 3-25021 TiN
M10	1,50	100	24	10,0	8,0	3-25021 / 3-25021 TiN
Set	M3-M12					3-25021 / TiN
Set	M3-M12 + Kernlochbohrer / core drills					3-25021 / TiN

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 800 N/mm² Festigkeit,
in langspanenden Werkstoffen

Materials:

for through and blind holes in steels up to 800 N/mm² tensile strength, in longchipping materials

witec® MASCHINENGWINDEBOHRER witec® MACHINE TAPS

DIN 376

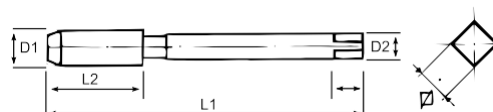
FORM B

HSS
M2

METRISCH
METRIC

- metrisches ISO-Gewinde DIN 13
- mit Schälanschnitt Form B
- metric ISO-fine thread DIN 13
- with spiral point form B

INFOBOX



Art.-Nr.: 3-25100 / 3-25100 TiN

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
M3	0,50	56	11	2,2	-	3-25100 / 3-25100 TiN
M4	0,70	63	13	2,8	2,1	3-25100 / 3-25100 TiN
M5	0,80	70	16	3,5	2,7	3-25100 / 3-25100 TiN
M6	1,00	80	19	4,5	3,4	3-25100 / 3-25100 TiN
M8	1,25	90	22	6,0	4,9	3-25100 / 3-25100 TiN
M10	1,50	100	24	7,0	5,5	3-25100 / 3-25100 TiN
M12	1,75	110	29	9,0	7,0	3-25100 / 3-25100 TiN
M14	2,00	110	30	11,0	9,0	3-25100 / 3-25100 TiN
M16	2,00	110	32	12,0	9,0	3-25100 / 3-25100 TiN
M18	2,50	125	34	14,0	11,0	3-25100 / 3-25100 TiN
M20	2,50	140	34	16,0	12,0	3-25100 / 3-25100 TiN

Einsatzgebiete:

für Durchgangslöcher in Stählen bis 800 N/mm² Festigkeit, in langspanenden Werkstoffen

Materials:

for through holes in steels up to 800 N/mm² tensile strength, in longchipping materials

witec® MASCHINENGEWINDEBOHRER

witec® MACHINE TAPS

DIN 376

FORM C

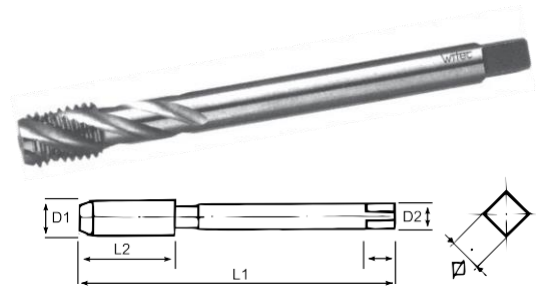
35°

HSS
M2

METRISCH
METRIC

- metrisches ISO-Gewinde DIN 13
- rechtsgenutet 35° Form C
- metric ISO-fine thread DIN 13
- with 35° spiral flutes form C

INFOBOX



Art.-Nr.: 3-25102 / 3-25102 TiN

Ø D1	Steigung Pitch mm	L1 mm	L2 mm	D2 mm	vkt. square mm	Art.-Nr.
M3	0,50	56	11	2,2	-	3-25102 / 3-25102 TiN
M4	0,70	63	13	2,8	2,1	3-25102 / 3-25102 TiN
M5	0,80	70	16	3,5	2,7	3-25102 / 3-25102 TiN
M6	1,00	80	19	4,5	3,4	3-25102 / 3-25102 TiN
M8	1,25	90	22	6,0	4,9	3-25102 / 3-25102 TiN
M10	1,50	100	24	7,0	5,5	3-25102 / 3-25102 TiN
M12	1,75	110	29	9,0	7,0	3-25102 / 3-25102 TiN
M14	2,00	110	30	11,0	9,0	3-25102 / 3-25102 TiN
M16	2,00	110	32	12,0	9,0	3-25102 / 3-25102 TiN
M18	2,50	125	34	14,0	11,0	3-25102 / 3-25102 TiN
M20	2,50	140	34	16,0	12,0	3-25102 / 3-25102 TiN

Einsatzgebiete:

für Durchgangs- und Sacklochgewinde in Stählen bis 800 N/mm² Festigkeit,
in langspanenden Werkstoffen

Materials:

for through and blind holes in steels up to 800 N/mm² tensile strength, in longchipping materials

witec® KOMBIGEWINDEBOHRER witec® COMBINED TAPS

DIN 13

FORM C

KOMBI

HSS-E

METRISCH
METRIC

- metrisches ISO-Gewinde DIN 13
- Kombigewindebohrer
- metric ISO-fine thread DIN 13
- combined taps



Art.-Nr.: 3-27370 / 3-27370TiN

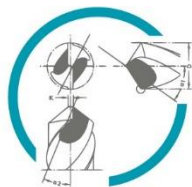
Ø	L1 mm	S1 mm	L2 mm	D1 mm	D2 mm	□ mm	Art.-Nr.
M3	56	16	11	2,5	3,0	2,4	3-27370 / 3-27370 TiN
M4	63	18	14	3,3	4,0	3,0	3-27370 / 3-27370 TiN
M5	71	20	18	4,2	5,0	3,8	3-27370 / 3-27370 TiN
M6	80	22	22	5,0	6,0	4,9	3-27370 / 3-27370 TiN
M8	95	26	25	6,8	8,0	6,2	3-27370 / 3-27370 TiN
M10	106	30	31	8,5	10,0	8,0	3-27370 / 3-27370 TiN
M12	115	32	35	10,2	12,0	9,0	3-27370 / 3-27370 TiN
Set M3 - M12							3-27370 / 3-27370 TiN

Einsatzgebiete:

für die Bearbeitung von Stählen, NE-Metallen und Kunststoffen bis 600 N/mm² Festigkeit

Materials:

for processing of steels, NE-metals and plastics up to 800 N/mm² tensile strength



witec[®]
WERKZEUG- UND INDUSTRIE TECHNIK

Risto
Reparatur- und
Instandhaltung

WERKZEUGHALTER TOOL HOLDERS

Art.-Nr.		Seite Page
3-90001	Verstellbare Windeisen, DIN 1814 Adjustable Tap Wrenches, DIN 1814	122
3-90002	Schneideisenhalter, DIN 225 Die Stock, DIN 225	122
3-90003	Werkzeughalter mit Knarre Tap Wrench with Ratches	122
3-90004	Gewindebohrer Verlängerungen, DIN 377 Extension Sleeves for Taps, DIN 377	123
3-90005	Reduzierhülsen, DIN 2185 Adaptor Sleeves, DIN 2185	123

witec® VERSTELLBARE WINDEISEN DIN 1814 witec® ADJUSTABLE TAP WRENCHES DIN 1814

Nr. No.	Abmessung Size	Art.-Nr.
Gr.0	M1-M8	3-90001
Gr.1	M1-M10	3-90001
Gr.1.1/2	M1-M12	3-90001
Gr. 2	M4-M12	3-90001
Gr. 3	M5-M20	3-90001
Gr. 4	M11-M27	3-90001
Gr. 5	M13-M32	3-90001
Gr. 6	M18-M42	3-90001
Gr. 7	M25-M52	3-90001



Art.-Nr.: 3-90001

witec® SCHNEIDEISENHALTER DIN 225

zur direkten Aufnahme von Schneideisen nach DIN 223/5158, DIN EN 22568, DIN EN 24230, DIN EN 24231

witec® DIE STOCKS DIN 225

for direct application of dies DIN 223 without capsule

Abmessung Size mm	Art.-Nr.
16x5 M1-2,6	3-90002
20x5 M3-4	3-90002
20x7 M4,5-6	3-90002
25x9 M7-9	3-90002
30x11 M10-11	3-90002
38x10 Mf12-14	3-90002
38x14 M12-14	3-90002
45x14 Mf16-20	3-90002
45x18 M22-24	3-90002
55x16 Mf22-26	3-90002
55x22 M22-24	3-90002
65x18 Mf27-36	3-90002
65x25 M27-36	3-90002
75x20 Mf38-42	3-90002
75x30 M38-42	3-90002
90x22 Mf45-52	3-90002
90x36 M45-52	3-90002



Art.-Nr.: 3-90002

witec® WERKZEUGHALTER MIT KNARRE

für Rechts- und Linksgang

witec® TAP WRENCHES WITH RATCHES

for right- and left-hand turn

kurze Ausführung

Abmessung Size	Art.-Nr.
No.1 M3-M10	3-90003
No.2 M5-M12	3-90003

lange Ausführung

Abmessung Size	Art.-Nr.
No.10 M3-M10	3-90003
No.20 M5-M12	3-90003



Art.-Nr.: 3-90003

witec® GEWINDEBOHRER VERLÄNGERUNGEN DIN 377

witec® EXTENSION SLEEVES FOR TAPS DIN 377



Art.-Nr.: 3-90004

Abmessung Size	L1 mm	HGB DIN 352	Art.-Nr.
2,10	60	M1-2,6	3-90004
2,40	70		3-90004
2,70	80	M3	3-90004
3,00	90	M3,5	3-90004
3,40	95	M4	3-90004
3,80	100		3-90004
4,30	105		3-90004
4,90	110	M4,5-8	3-90004
5,50	115	M9-10	3-90004
6,20	120	M11	3-90004
7,00	125	M12	3-90004
8,00	125		3-90004
9,00	130	M14-16	3-90004

Abmessung Size	L1 mm	HGB DIN 352	Art.-Nr.
10,00	140		3-90004
11,00	150	M18	3-90004
12,00	155	M20	3-90004
13,00	165		3-90004
14,50	175	M22-24	3-90004
16,00	180	M25-27	3-90004
18,00	200	M28-30	3-90004
20,00	220	M32-33	3-90004
22,00	220	M34-36	3-90004
24,00	235	M39-42	3-90004
26,00	250		3-90004
29,00	265	M45-48	3-90004
32,00	285	M50-52	3-90004

Abmessung Size	Art.-Nr.
2x1	3-90005
3x1	3-90005
3x2	3-90005
4x1	3-90005
4x2	3-90005
4x3	3-90005
5x3	3-90005
5x4	3-90005

witec® REDUZIERHÜLSEN DIN 2185

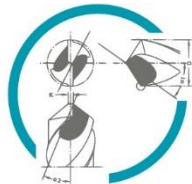
INNEN MK X AUSSEN MK

witec® ADAPTOR SLEEVES DIN 2185

INSIDE-MORSETAPER X OUTSIDE-MORSETAPER



Art.-Nr.: 3-90005



witec[®]
WERKZEUG- UND INDUSTRIE TECHNIK

Rista
Reparatur- und
Instandhaltung

VHM ROTORFRÄSER SOLID CARBIDE ROTOR-BURRS

Art.-Nr.		Seite Page
3-38151 / ALU	VHM-Rotorfräser, Typ ZYA, KREUZ oder ALUMINIUM-Verzahnung Solid carbide Rotor-Burrs, Type ZYA, CROSS or ALUMINIUM toothing	124
3-38101 / ALU	VHM Rotorfräser, Typ ZYA-S, KREUZ oder ALUMINIUM-Verzahnung Solid Carbide Rotor-Burrs, Type ZYA-S, CROSS or ALUMINIUM toothing	124
3-38161 / ALU	VHM-Rotorfräser, Typ KEL, KREUZ oder ALUMINIUM-Verzahnung Solid carbide, Rotor-Burrs, Type KEL, CROSS or ALUMINIUM toothing	125
3-38102 / ALU	VHM Rotorfräser, Typ WRC, KREUZ oder ALUMINIUM-Verzahnung Solid Carbide Rotor-Burrs, Type WRC, CROSS or ALUMINIUM toothing	125
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3-38104 / ALU	VHM Rotorfräser, Typ RBF, KREUZ oder ALUMINIUM-Verzahnung Solid Carbide Rotor-Burrs, Type RBF, CROSS or ALUMINIUM toothing	126
3-38105 / ALU	VHM Rotorfräser, Typ SPG, KREUZ oder ALUMINIUM-Verzahnung Solid Carbide Rotor-Burrs, Type SPG, CROSS or ALUMINIUM toothing	127
3-38106 / ALU	VHM Rotorfräser, Typ SKM, KREUZ oder ALUMINIUM-Verzahnung Solid Carbide Rotor-Burrs, Type CROSS or ALUMINIUM toothing	127
3-38107 / ALU	VHM-Rotorfräser, Typ TRE, KREUZ oder ALUMINIUM-Verzahnung Solid Carbide Rotor-Burrs, Type TRE, CROSS or ALUMINIUM toothing	128
3-38108 / ALU	VHM-Rotorfräser, Typ SPH, KREUZ oder ALUMINIUM-Verzahnung Solid carbide Rotor-Burrs, Type SPH, CROSS or ALUMINIUM toothing	128
3-38198 / ALU	VHM Rotorfräser Satz ZYA;ZYA-S;WRC;KUD;RBF;SPG;SKM) KREUZ oder ALU-Verzahnung Solid carbide Rotor-Burrs Set (ZYA;ZYA-S;WRC;KUD;RBF;SPG;SKM) CROSS or ALU-toothing	129

witec® VHM ROTORFRÄSER witec® SOLID CARBIDE ROTOR-BURRS

ZYLINDERFORM
CYLINDRICAL SHAPE

Form A ohne Stirnverzahnung
Shape A without end tothing

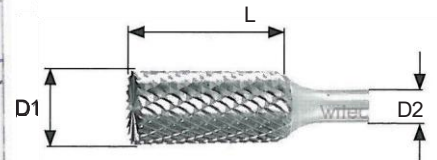
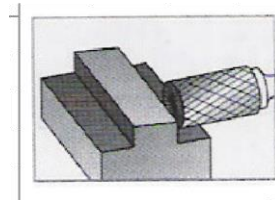
VHM
SOLID CARBIDE

TYP ZYA
TYPE ZYA

Kreuz- oder ALU-Verzahnung
Cross- or ALU-tothing

Art.-Nr.: 3-38151 / 3-38151 ALU

Ø D1 mm Kopf Head	Ø L mm Kopflänge Head length	Ø D2 mm Schaft Shank	Art.-Nr.
3,0	14	3	3-38151/ALU
6,0	16	6	3-38151/ALU
8,0	20	6	3-38151/ALU
10,0	20	6	3-38151/ALU
12,0	25	6	3-38151/ALU
16,0	25	6	3-38151/ALU



ZYLINDERFORM
CYLINDRICAL SHAPE

Form B mit Stirnverzahnung
Shape B with end tothing

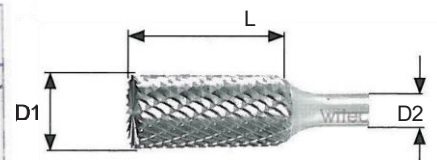
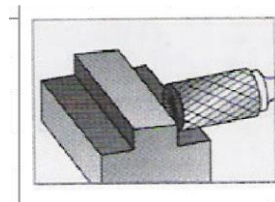
VHM
SOLID CARBIDE

TYP ZYA-S
TYPE ZYA-S

Kreuz oder ALU-Verzahnung
Cross or ALU-tothing

Art.-Nr.: 3-38101 / 3-38101 ALU

Ø D1 mm Kopf Head	Ø L mm Kopflänge Head length	Ø D2 mm Schaft Shank	Art.-Nr.
3,0	14	3	3-38101/ALU
6,0	16	6	3-38101/ALU
8,0	20	6	3-38101/ALU
10,0	20	6	3-38101/ALU
12,0	25	6	3-38101/ALU
16,0	25	6	3-38101/ALU



Material:		Steel 60 HRC	Steel 65 HRC	Inox <900 N	Inox >900 N	Ti >800 N	GG (G) Cast	Hardox Inconel
Z3K ALU		- -	- -	• -	• -	• •	• -	• -
Z3K ALU	ALU 99,5% - •	ALU <10% Si - •	ALU Guss/Cast • ○	Steel <500 N • -	Steel <750 N • -	Steel <900 N • -	Steel <1100 N • -	Steel 45 HRC • -

Einsatzgebiete:

für allgemeine Arbeiten, Stahlguß, Stähle mit hoher Festigkeit, zum Entgraten, Fasen, Kantenbrechen, saubere Oberflächen

Materials:

to work in steel cast, hard steels, for deburring, chamfering edge, breaking, clean surface

witec® VHM ROTORFRÄSER witec® SOLID CARBIDE ROTOR-BURRS

RUNDKEGEL
Ball nosed cone

Form L
Shape L

VHM
SOLID CARBIDE

TYP KEL
TYPE KEL

Kreuz oder ALU-Verzahnung
Cross or ALU-toothing

Art.-Nr.: 3-38161 / 3-38161 ALU

Ø D1 mm Kopf Head	Ø L mm Kopflänge Head length	Ø D2 mm Schaft Shank	Art.-Nr.
3,0	14	3	3-38161/ALU
6,0	16	6	3-38161/ALU
8,0	22	6	3-38161/ALU
10,0	22	6	3-38161/ALU
12,0	28	6	3-38161/ALU
16,0	33	6	3-38161/ALU



WALZENRUND
BALL NOSED

Form C
Shape C

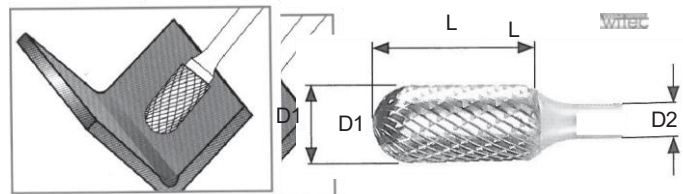
VHM
SOLID CARBIDE

TYP WRC
TYPE WRC

Kreuz oder ALU-Verzahnung
Cross or ALU-toothing

Art.-Nr.: 3-38102 / 3-38102 ALU

Ø D1 mm Kopf Head	Ø L mm Kopflänge Head length	Ø D2 mm Schaft Shank	Art.-Nr.
3,0	13	3	3-38102/ALU
6,0	16	6	3-38102/ALU
8,0	20	6	3-38102/ALU
10,0	20	6	3-38102/ALU
12,0	25	6	3-38102/ALU
16,0	25	6	3-38102/ALU



Material:		Steel 60 HRC	Steel 65 HRC	Inox <900 N	Inox >900 N	Ti >800 N	GG (G) Cast	Hardox Inconel
Z3K ALU		- -	- -	• -	• -	• •	• -	• -
Z3K ALU	ALU 99,5% - •	ALU <10% Si - •	ALU Guss/Cast • ○	Steel <500 N • -	Steel <750 N • -	Steel <900 N • -	Steel <1100 N • -	Steel 45 HRC • -

Einsatzgebiete:

für allgemeine Arbeiten, Stahlguß, Stähle mit hoher Festigkeit, zum Entgraten, Fasen, Kantenbrechen, saubere Oberflächen

Materials:

to work in steel cast, hard steels, for deburring, chamfering edge, breaking, clean surface

witec® VHM ROTORFRÄSER witec® SOLID CARBIDE ROTOR-BURRS

KUGEL FORM
BALL SHAPE

Form D
Shape D

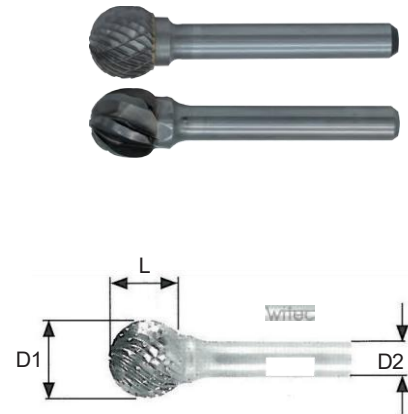
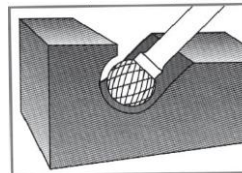
VHM
SOLID CARBIDE

TYP KUD
TYPE KUD

Kreuz oder ALU-Verzahnung
Cross or ALU-toothing

Art.-Nr.: 3-38103 / 3-38103 ALU

Ø D1 mm Kopf Head	Ø L mm Kopflänge Head length	Ø D2 mm Schaft Shank	Art.-Nr.
3,0	2	3	3-38103/ALU
6,0	5	6	3-38103/ALU
8,0	7	6	3-38103/ALU
10,0	9	6	3-38103/ALU
12,0	10	6	3-38103/ALU
16,0	14	6	3-38103/ALU



RUNDBOGEN FORM
BALL NOSED
TREE SHAPE

Form F
Shape F

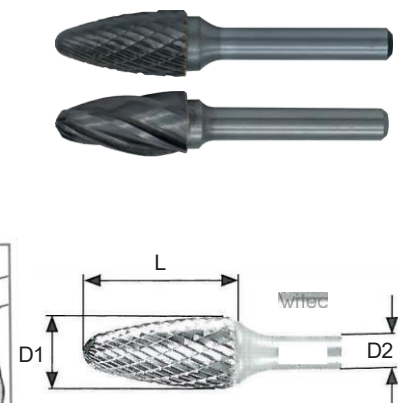
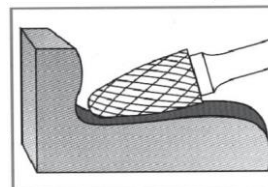
VHM
SOLID CARBIDE

TYP RBF
TYPE RBF

Kreuz oder ALU-Verzahnung
Cross or ALU-toothing

Art.-Nr.: 3-38104 / 3-38104 ALU

Ø D1 mm Kopf Head	Ø L mm Kopflänge Head length	Ø D2 mm Schaft Shank	Art.-Nr.
3,0	7	3	3-38104/ALU
6,0	18	6	3-38104/ALU
8,0	20	6	3-38104/ALU
10,0	20	6	3-38104/ALU
12,0	25	6	3-38104/ALU
16,0	30	6	3-38104/ALU



Material:		Steel 60 HRC	Steel 65 HRC	Inox <900 N	Inox >900 N	Ti >800 N	GG (G) Cast	Hardox Inconel
Z3K ALU		-	-	•	•	•	•	•
Z3K ALU	ALU 99,5%	ALU <10% Si	ALU Guss/Cast	Steel <500 N	Steel <750 N	Steel <900 N	Steel <1100 N	Steel 45 HRC
	•	•	•	•	•	•	•	•

Einsatzgebiete:

für allgemeine Arbeiten, Stahlguß, Stähle mit hoher Festigkeit, zum Entgraten, Fasen,
Kantenbrechen, saubere Oberflächen

Materials:

to work in steel cast, hard steels, for deburring, chamfering edge, breaking, clean surface

witec® VHM ROTORFRÄSER witec® SOLID CARBIDE ROTOR-BURRS

SPITZBOGEN FORM
TREE SHAPE

Form G
Shape G

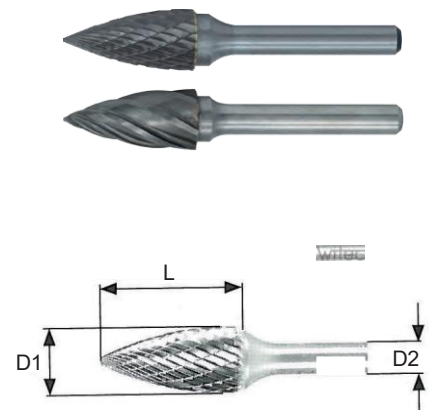
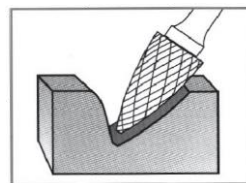
VHM
SOLID CARBIDE

TYP SPG
TYPE SPG

Kreuz oder ALU-Verzahnung
Cross or ALU-toothing

Art.-Nr.: 3-38105 / 3-38105 ALU

Ø D1 mm Kopf Head	Ø L mm Kopflänge Head length	Ø D2 mm Schaft Shank	Art.-Nr.
3,00	15	3	3-38105/ALU
6,00	18	6	3-38105/ALU
8,00	20	6	3-38105/ALU
10,0	20	6	3-38105/ALU
12,0	25	6	3-38105/ALU
16,0	25	6	3-38105/ALU



SPITZKEGEL FORM
CONE SHAPE

Form M
Shape M

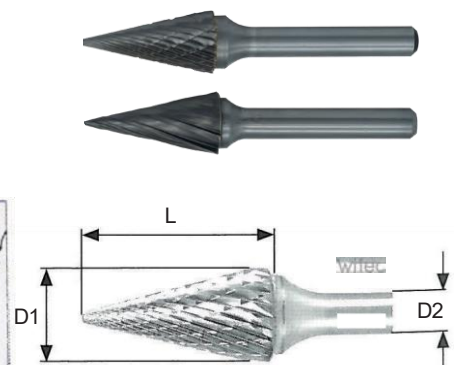
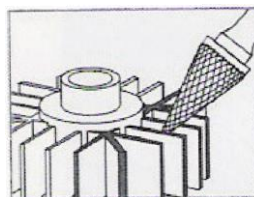
VHM
SOLID CARBIDE

TYP SKM
TYPE SKM

Kreuz oder ALU-Verzahnung
Cross or ALU-toothing

Art.-Nr.: 3-38106 / 3-38106 ALU

Ø D1 mm Kopf Head	Ø L mm Kopflänge Head length	Ø D2 mm Schaft Shank	Art.-Nr.
3,00	11	3	3-38106/ALU
6,00	18	6	3-38106/ALU
8,00	18	6	3-38106/ALU
10,0	20	6	3-38106/ALU
12,0	25	6	3-38106/ALU
16,0	25	6	3-38106/ALU



Material:		Steel 60 HRC	Steel 65 HRC	Inox <900 N	Inox >900 N	Ti >800 N	GG (G) Cast	Hardox Inconel
Z3K ALU		- -	- -	• -	• -	• •	• -	• -
Z3K ALU	ALU 99,5% •	ALU <10% Si •	ALU Guss/Cast • ○	Steel <500 N • -	Steel <750 N • -	Steel <900 N • -	Steel <1100 N • -	Steel 45 HRC • ○ -

Einsatzgebiete:

für allgemeine Arbeiten, Stahlguß, Stähle mit hoher Festigkeit, zum Entgraten, Fasen, Kantenbrechen, saubere Oberflächen

Materials:

to work in steel cast, hard steels, for deburring, chamfering edge, breaking, clean surface

witec® VHM ROTORFRÄSER witec® SOLID CARBIDE ROTOR-BURRS

SPITZBOGEN FORM
TREE SHAPE

Form E
Shape E

VHM
SOLID CARBIDE

TYP TRE
TYPE TRE

Kreuz oder ALU-Verzahnung
Cross or ALU-toothing

Art.-Nr.: 3-38107 / 3-38107 ALU

Ø D1 mm Kopf Head	Ø L mm Kopflänge Head length	Ø D2 mm Schaft Shank	Art.-Nr.
3,00	6	3	3-38107/ALU
6,00	10	6	3-38107/ALU
8,00	13	6	3-38107/ALU
10,0	16	6	3-38107/ALU
12,0	20	6	3-38107/ALU
16,0	25	6	3-38107/ALU



SPITZKEGEL FORM
CONE SHAPE

Form H
Shape H

VHM
SOLID CARBIDE

TYP FLH
TYPE FLH

Kreuz oder ALU-Verzahnung
Cross or ALU-toothing

Art.-Nr.: 3-38108 / 3-38108 ALU

Ø D1 mm Kopf Head	Ø L mm Kopflänge Head length	Ø D2 mm Schaft Shank	Art.-Nr.
3,00	6	3	3-38108/ALU
6,00	18	6	3-38108/ALU
8,00	20	6	3-38108/ALU
10,0	25	6	3-38108/ALU
12,0	32	6	3-38108/ALU
16,0	36	6	3-38108/ALU



Material:		Steel 60 HRC	Steel 65 HRC	Inox <900 N	Inox >900 N	Ti >800 N	GG (G) Cast	Hardox Inconel
Z3K ALU		- -	- -	• -	• -	• •	• -	○ -
Z3K ALU	ALU 99,5% •	ALU <10% Si •	ALU Guss/Cast • ○	Steel <500 N • -	Steel <750 N • -	Steel <900 N • -	Steel <1100 N • -	Steel 45 HRC ○ -

Einsatzgebiete:

für allgemeine Arbeiten, Stahlguß, Stähle mit hoher Festigkeit, zum Entgraten, Fasen,
Kantenbrechen, saubere Oberflächen

Materials:

to work in steel cast, hard steels, for deburring, chamfering edge, breaking, clean surface

witec® VHM ROTORFRÄSER witec® SÄTZE SOLID CARBIDE ROTOR-BURRS SETS

Form A Zylinder ohne Stirnverzahnung (ZYA)
Form B Zylinder mit Stirnverzahnung (ZYA-S)
Form C Walzenrund (WRC)
Form D Kugel (KUD)
Form F Rundbogen (RBF)
Form G Spitzbogen (SPG)
Form M Spitzkegel (SKM)

Shape A Cylindrical-End Cutting **without** Tothing (ZYA)
Shape B Cylindrical-End Cutting **with** End Tothing (ZYA-S)
Shape C Cylindrical Ball nosed (WRC)
Shape D Ball (KUD)
Shape F Ball Nosed tree (RBF)
Shape G Pointed tree (SPG)
Shape M Cone with pointed head (KSM)

5-teilig in Kunststoffbox, blau/transparent
5 Pcs. in plastic box, blue/transparent



Art.-Nr.: 3-38198

Typ Type	Ø D1 mm Kopf Head	Art.-Nr.
Form/Shape B/C/D/F/G	6	3.38198SET06
Form/Shape B/C/D/F/G	8	3.38198SET08
Form/Shape B/C/D/F/G	10	3.38198SET10
Form/Shape B/C/D/F/G	12	3.38198SET12



10-teilig in Kunststoffkassette, blau/schwarz
10 Pcs. in plastic box, blue/black

Typ Type	Ø D1 mm Kopf Head	Art.-Nr.
je/each 10+12mm Form/Shape A/C/F/G + je/each 12 mm Form/Shape D/M	10 + 12	3.38198S1012

Einsatzgebiete:

für allgemeine Arbeiten, Stahlguß, Stähle mit hoher Festigkeit, zum Entgraten, Fasen,
Kantenbrechen, saubere Oberflächen

Materials:

to work in steel cast, hard steels, for deburring, chamfering edge, breaking, clean surface

witec® VHM ROTORFRÄSER SÄTZE witec® SOLID CARBIDE ROTOR-BURRS SETS

Form A Zylinder ohne Stirnverzahnung (ZYA)
Form B Zylinder mit Stirnverzahnung (ZYA-S)
Form C Walzenrund (WRC)
Form D Kugel (KUD)
Form F Rundbogen (RBF)
Form G Spitzbogen (SPG)
Form M Spitzkegel (SKM)

Shape A Cylindrical-End Cutting without Tothing (ZYA)
Shape B Cylindrical-End Cutting with End Tothing (ZYA-S)
Shape C Cylindrical Ball nosed (WRC)
Shape D Ball (KUD)
Shape F Ball Nosed tree (RBF)
Shape G Pointed tree (SPG)
Shape M Cone with pointed head (KSM)

5-teilig in Kunststoffbox, blau/transparent
5 Pcs. in plastic box, blue/transparent



Art.-Nr.: 3-38198 ALU



Typ Type	Ø D1 mm Kopf Head	Art.-Nr.
Form/Shape B/C/D/F/G	6	3.38198SET06
Form/Shape B/C/D/F/G	8	3.38198SET08
Form/Shape B/C/D/F/G	10	3.38198SET10
Form/Shape B/C/D/F/G	12	3.38198SET12



10-teilig in Kunststoffkassette, blau/schwarz
10 Pcs. in plastic box, blue/black

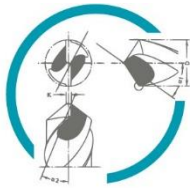
Typ Type	Ø D1 mm Kopf Head	Art.-Nr.
je/each 10+12mm Form/Shape B/C/F/G + je/each 12 mm Form/Shape D/M	10 + 12	3.38198S1012

Einsatzgebiete:

für allgemeine Arbeiten, Stahlguß, Stähle mit hoher Festigkeit, zum Entgraten, Fasen, Kantenbrechen, saubere Oberflächen

Materials:

to work in steel cast, hard steels, for deburring, chamfering edge, breaking, clean surface



witec[®]
WERKZEUG- UND INDUSTRIE TECHNIK

Rista
Reparatur- und
Instandhaltung

VHM FLIESSLOCHBOHRER SOLID CARBIDE FRICTION DRILLS

Art.-Nr.		Seite Page
1-10052	VHM Fliesslochbohrer für Verformung mit selbstzentrierender Spitze Solid Carbide Friction Drill for forming with self centering tip	131 - 132
1-10053	VHM Fliesslochbohrer zum Schneiden mit selbstzentrierender Spitze Solid Carbide Friction Drill for cutting with self centering tip	131 - 132

witec® VHM FLIESSLOCHBOHRER MIT ZENTRIERSPITZE witec® SOLID CARBIDE FRICTION DRILLS WITH CENTERING TIP

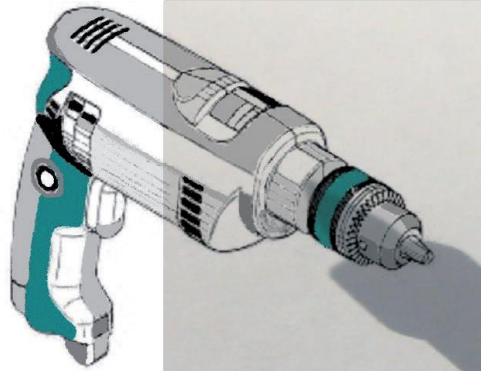
- zum Schneiden und für Verformung
- Norm kurz und lang
- für die Herstellung von Fließlöchern
- mit oder ohne Kragen
- mit Zentrierspitze
- zum Einsatz auf Handbohrmaschinen

- type forming and cutting
- short and long
- to produce flow holes
- with or without collar
- with centering tip
- application hand drilling machines

INFOBOX

Art.-Nr.: 1-10052 / 1-10053

Hergestellt in Deutschland



Die Neue Generation!

The New Generation!

witec® Fließlochbohrer für die Handbohrmaschine
witec® friction drill for the hand machine



Einsatzgebiete: in dünnwandigen metallischen Werkstoffen
Materials: for thin-walled metallic materials

Hergestellt in Deutschland
Made in Germany



metrisches ISO-Gewinde metric ISO-thread



Gewinde thread	Ø mm	Materialstärke thickness mm	Art-Nr.	
			ohne Schneide without cutter	mit Schneide with cutter
M4 K(S) / L	3,7	1,3	1-10052	1-10053
M5 K(S) / L	4,5	1,3	1-10052	1-10053
M6 K(S) / L	5,4	2,0	1-10052	1-10053
M8 K(S) / L	7,3	2,0	1-10052	1-10053
M8 K(S) / L	7,4	2,0	1-10052	1-10053
M4 K(S) / L	1-10052/-3+27200 TiN	Set	1-10052	1-10053
M5 K(S) / L	1-10052/-3+27200 TiN	Set	1-10052	1-10053
M6 K(S) / L	1-10052/-3+27200 TiN	Set	1-10052	1-10053
M8 K(S) / L	1-10052/-3+27200 TiN	Set	1-10052	1-10053



Art.-Nr.: 1-10052
Typ Verformung
Type forming

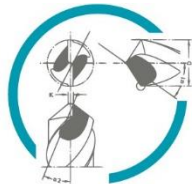
Art.-Nr.: 1-10053
Typ Schneide
Type cutting



Zubehör / Accessories			Art.-Nr.
Kühlfutter / Cooling chuck			
MK 2	ER25	4-16 mm	3-90008
MK 3	ER32	2-20 mm	3-90008
Trennpaste / Cutting paste 100 g			3-90500

TECHNISCHE DATEN / TECHNICAL DATA

Drehzahl für die Fließlochbohrer Anwendung RPM for the friction drill application			Drehzahl für die Gewindeformer Anwendung RPM for cold forming tap application	
M4 k	min 3.000	max 4.000	M4	1100
M5 k	min 3.000	max 4.000	M5	900
M6 k	min 3.000	max 4.000	M6	800
M8 k	min 3.000	max 4.000	M8	600
Auszugskräfte (Ausreißen des Gewindes) Pull out strength			Sicherheitshinweis Safety indication	
ISO Metrisch Metric	Materialstärke mm Material thickness mm	kN Kilo Newton	Schutzbrille während der Anwendung tragen. Fließbohrer und Werkstück sind nach der Bearbeitung sehr heiß. Abkühlungsprozess abwarten, Schutzhandschuhe tragen. Please wear safety glasses during the application. Friction drill and work piece are very hot after working. Please wait for cooling down the tools and wear protective gloves.	
M4	1,0	5 - 6		
	2,0	8 - 9		
M5	1,0	8 - 10		
	1,5	11 - 13		
	2,0	14 - 15		
M6	1,5	12 - 16		
	2,0	16 - 17		
M8	2,0	22 - 27		



witec[®]
WERKZEUG- UND INDUSTRIE TECHNIK

Risto
Reparatur- und
Instandhaltung

WERKZEUGE MIT
1/4" BIT-AUFNAHME
CUTTING TOOLS

WITH 1/4" HEXAGON SHANK

Art.-Nr.		Seite Page
3-18188BIT	Spiralbohrer, HSS, 118°, NX, 1/4" Bit-Aufnahme, blank Screw Machine Drill, HSS, 118°, NX, 1/4" Hexagon Shank, bright finished	133
3-19089BIT	Kegel- und Engratsenker, HSS, C, 90°, geschliffen, 1/4" Schaft DIN 335, blank Countersink, HSS, C, 90°, grinded, 1/4" Shank, DIN 335, bright finished	134
3-27088BIT	Einschnittgewindebohrer, HSS, metrisch, 1/4" Schaft Short Hand Tap, HSS, metric, 1/4" Shank	135
3-27672BIT	Kombi-Bits, HSS-G, metrisch, 1/4" Schaft, blank Combined Bits, HSS-G, metric, 1/4" Shank, bright finished	135
3-18028BIT	Flachfräser mit 1/4" Bit-Aufnahme, DIN 3126-E 6,3 Machine Flat Bit with 1/4" Hexagon Shank, DIN 3126-E 6,3	136
3-90007BIT	Universalwerkzeughalter, 1/4" Schaft, blank UNI Tool Holder, 1/4" shank, bright finished	136

witec® SPIRALBOHRER 1/4" BIT-AUFNAHME witec® SCREW MACHINE DRILLS 1/4" HEXAGON SHANK

1/4"

HSS
M2

N

118°

GESCHLIFFEN
GRINDED

- 1/4" Bitschaft Antrieb (DIN 3126)
- geschliffen
- Winkel 118°
- für Handmaschinen
- zum Einsatz in der Mischbearbeitung
- blank
- 1/4" hexagonal shank (DIN 3126)
- grinded
- angle 118°
- for hand machines
- to use in multi purpose working field
- bright finished

INFOBOX



Art.-Nr.: 3-18188BIT

blank / bright finished

Ø D1 mm	L1 mm	L2 mm	D2 mm	Art.-Nr.
1,00	32	7	1/4"	3-18188BIT
1,50	32	10	1/4"	3-18188BIT
2,00	34	12	1/4"	3-18188BIT
2,50	36	14	1/4"	3-18188BIT
3,00	38	16	1/4"	3-18188BIT
3,30	40	18	1/4"	3-18188BIT
3,50	40	18	1/4"	3-18188BIT
4,00	44	20	1/4"	3-18188BIT
4,20	45	20	1/4"	3-18188BIT
4,50	46	24	1/4"	3-18188BIT
5,00	50	26	1/4"	3-18188BIT
5,50	50	26	1/4"	3-18188BIT

Ø D1 mm	L1 mm	L2 mm	D2 mm	Art.-Nr.
6,00	50	26	1/4"	3-18188BIT
6,50	50	30	1/4"	3-18188BIT
6,80	50	30	1/4"	3-18188BIT
7,00	50	30	1/4"	3-18188BIT
7,50	51	32	1/4"	3-18188BIT
8,00	51	32	1/4"	3-18188BIT
8,50	53	33	1/4"	3-18188BIT
9,00	53	33	1/4"	3-18188BIT
9,50	54	38	1/4"	3-18188BIT
10,00	54	38	1/4"	3-18188BIT
10,20	54	38	1/4"	3-18188BIT

Satz / Set

Ø mm	D2 mm	Art.-Nr.
2,0 - 2,5 - 3,0 - 4,0 - 5,0 - 6,0 - 8,0	1/4"	3-18188BIT



Einsatzgebiete:

N, W, VA, GG (bis GG40) und hochlegierte Materialien bis 800 N/mm²

Materials:

N, W, INOX, GG (bis GG40) and high alloyed materials up to 800 N/mm²

witec® KEGEL- UND ENTGRATSENKER 1/4" BIT-AUFNAHME witec® COUNTERSINKS 1/4" HEXAGON SHANK

DIN 335

HSS
M2

C

90°

GESCHLIFFEN
GRINDED

- 1/4" Bitschaft Antrieb (DIN 3126)
- geschliffen
- 3 Schneiden, 90°
- für Handmaschinen
- zum Einsatz in der Mischbearbeitung
- blank
- 1/4" hexagonal shank (DIN 3126)
- grinded
- 3 cutters, 90°
- for hand machines
- to use in multi purpose working field
- bright finished

INFOBOX



Art.-Nr.: 3-19089BIT

blank / bright finished

Ø D1 mm	M mm	L mm	SW Shank	Art.-Nr.
6.3	M3	31	1/4"	3-19089BIT
8.3	M4	31	1/4"	3-19089BIT
10.4	M5	34	1/4"	3-19089BIT
12.4	M6	35	1/4"	3-19089BIT
16.5	M8	40	1/4"	3-19089BIT
20.5	M10	41	1/4"	3-19089BIT

Sätze / Sets

Ø mm	Art.-Nr.
6,3 - 8,3 - 10,4 - 12,4 - 16,5 - 20,5	3-19089BIT
+ Universalhalter 825-25 + Bohrpaste + Handgriff 1/4" „Innensechskant-Aufnahme“	



Einsatzgebiete:

in allen gängigen Industriematerialien

Materials:

for all common industrial materials

witec® EINSCHNITTGEWINDEBOHRER-BIT 1/4" BIT-AUFNAHME witec® SHORT TAP-BITS WITH 1/4" HEXAGON SHANK

Bits

1/4"

KOMBI

HSS
M2

METRISCH
METRIC



Art.-Nr.: 3-27088BIT

Ø	P mm	L1 mm	L2 mm	SW Shank	Drill mm	Art.-Nr.
M3	0,5	33	11	1/4"	2,5	3-27088BIT
M4	0,7	35	12	1/4"	3,3	3-27088BIT
M5	0,8	36	15	1/4"	4,2	3-27088BIT
M6	1,0	39	18	1/4"	5,0	3-27088BIT
M8	1,25	40	19	1/4"	6,8	3-27088BIT
M10	1,5	41	21	1/4"	8,5	3-27088BIT
Set M3 - M4 - M5 - M6 - M8 - M10 + Adapter 825-25						3-27088BIT



KOMBI-BITS COMBINED BITS

Bits

1/4"

KOMBI

HSS-G

METRISCH
METRIC



Art.-Nr.: 3-27672BIT

Ø	D1 mm	L1 mm	SW Shank	Art.-Nr.
M3	2,5	36	1/4"	3-27672BIT
M4	3,3	39	1/4"	3-27672BIT
M5	4,2	41	1/4"	3-27672BIT
M6	5,0	44	1/4"	3-27672BIT
M8	6,8	50	1/4"	3-27672BIT
M10	8,5	59	1/4"	3-27672BIT
Set M3 - M4 - M5 - M6 - M8 - M10 + Adapter 825-25				3-27672BIT



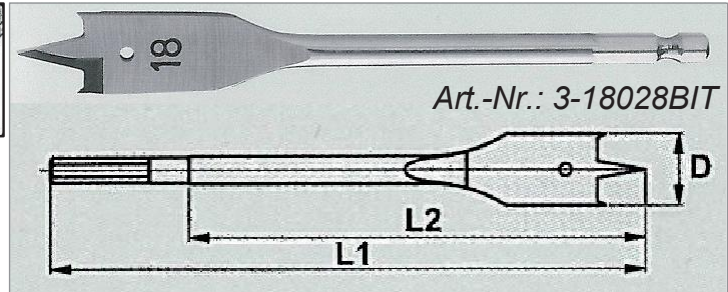
Einsatzgebiete:

für die Bearbeitung von Stählen, NE-Metallen und Kunststoffen bis 800 N/mm² Festigkeit

Materials:

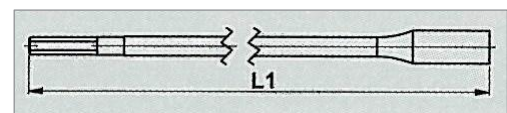
for processing of steels, NE-metals and plastics up to 800 N/mm² tensile strength

witec® FLACHFRÄSER DIN 3126-E 6,3 MIT 1/4" BIT-AUFNAHME
witec® MACHINE FLAT BIT DIN 3126-E 6,3 WITH 1/4" HEXAGON SHANK



blank / bright finished

Ø D1 mm	Ø L1 mm	Ø L2 mm	SW mm	Art.-Nr.
6,00	150	100	6,35	3-18028BIT
8,00	150	100	6,35	3-18028BIT
10,00	150	100	6,35	3-18028BIT
12,00	150	100	6,35	3-18028BIT
13,00	150	100	6,35	3-18028BIT
14,00	150	100	6,35	3-18028BIT
16,00	150	100	6,35	3-18028BIT
18,00	150	100	6,35	3-18028BIT
20,00	150	100	6,35	3-18028BIT
22,00	150	100	6,35	3-18028BIT
24,00	150	100	6,35	3-18028BIT
25,00	150	100	6,35	3-18028BIT
28,00	150	100	6,35	3-18028BIT
30,00	150	100	6,35	3-18028BIT
32,00	150	100	6,35	3-18028BIT
35,00	150	100	6,35	3-18028BIT
36,00	150	100	6,35	3-18028BIT
38,00	150	100	6,35	3-18028BIT
40,00	150	100	6,35	3-18028BIT
Verlängerung	300		6,35	
Extension Sleeves				3-18028BIT

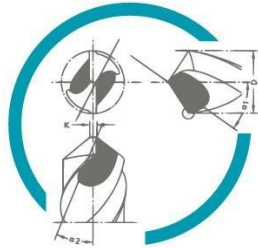


**UNIVERSALHALTER-BIT 1/4" BIT-
AUFNAHME UNI TOOL HOLDER WITH 1/4"
HEXAGON SHANK**

Art.-Nr.: 3-90007BIT

Ø mm	Art.-Nr.
Universalhalter / UNI tool holder	3-90007BIT
60 mm Länge	





witec®

WERKZEUG- UND INDUSTRIE-TECHNIK



Rista

REPARATUR- UND INSTANDHALTUNG
REPAIR AND MAINTENANCE



TimberFlux

ENGINEERED FOR WOOD



Programm umfasst Werkzeuge für die industrielle Holzbearbeitung u.a. auf CNC-Maschinen. Holzbaustoffe erreichen durch ihre Nachhaltigkeit in der Bauindustrie eine immer größere Akzeptanz. Neben normalen Nadelhölzern kommen mehr und mehr Laubhölzer zum Einsatz. BauBuche ist ein Verbundwerkstoff, der eine Leistungsfähigkeit von Stahlbeton und Stahlbauweise erreicht und übertrifft. Aufgrund der Nachhaltigkeit von Holzbaustoffen kommen diese zunehmend in der Bauindustrie zum Einsatz. Diese Sonderholzbaustoffe sind mit den herkömmlichen Werkzeugen für die Bearbeitung von Nadelhölzern nicht mehr wirtschaftlich zu bearbeiten.



Mit dem Programm tragen wir der Bearbeitung dieser neuen Materialien Rechnung. Die von uns entwickelten Werkzeuge bearbeiten BauBuche und ähnlich Materialien höchst wirtschaftlich.



Nähere Informationen finden Sie uns unserem Katalog



programme includes tools for industrial woodworking, as well on CNC machines. Wood-based materials are becoming increasingly popular in the construction industry due to their sustainability. In addition to normal softwoods, hardwoods are also being used more and more. BauBuche is a composite material that achieves and exceeds the performance of reinforced concrete and steel construction. Due to the sustainability of wood-based materials, they are increasingly being used in the construction industry. These special wood-based materials can no longer be processed economically with conventional tools for processing softwoods.

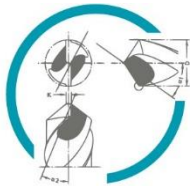


With range, we are responding to the need to process these new materials. Our newly developed tools process BauBuche and similar materials in a highly economical manner.



You can find more detailed information in our catalogue

Wir arbeiten ausschließlich nach der gesetzlichen DS-GVO. We work exclusively in accordance with the statutory DS-GVO

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