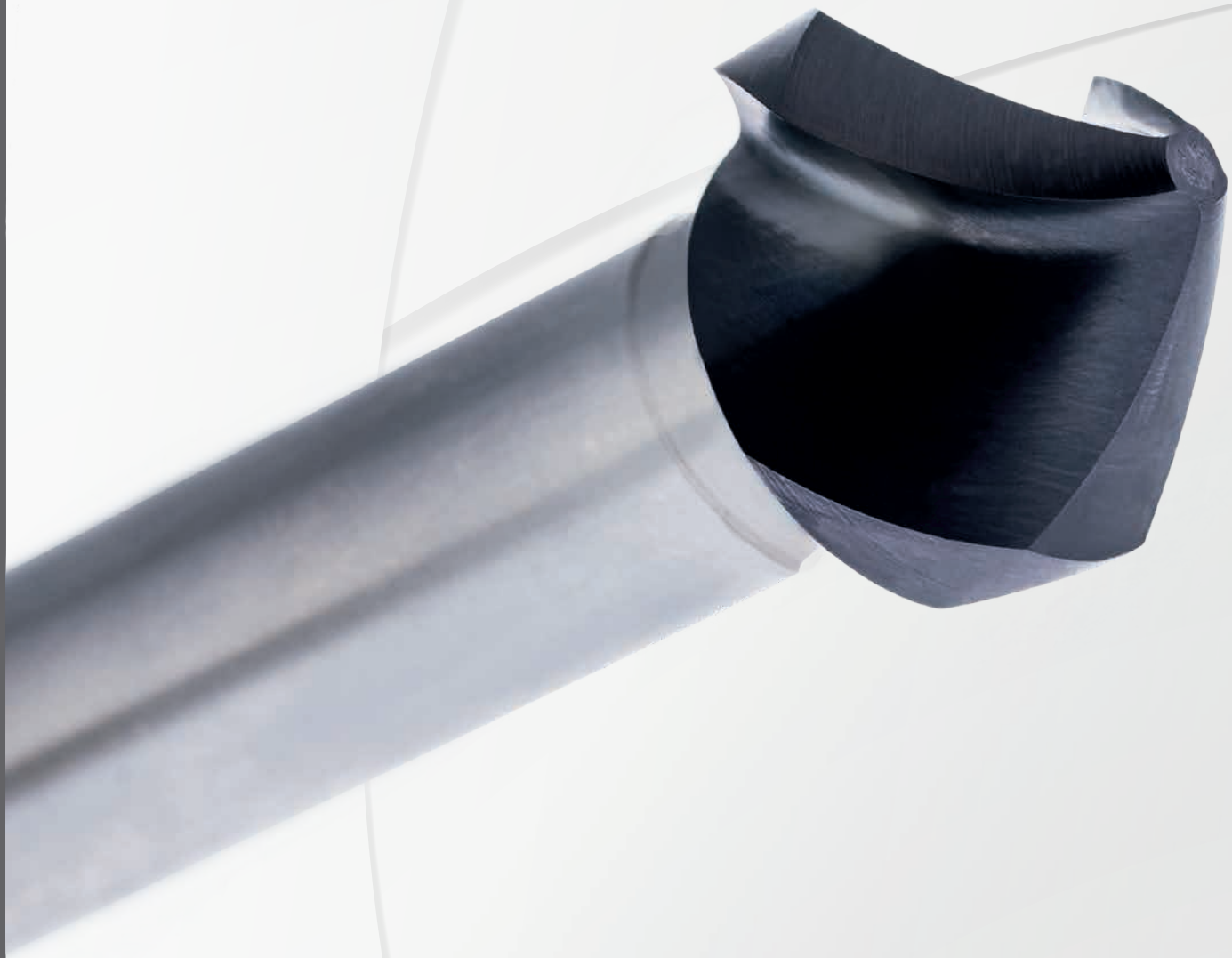


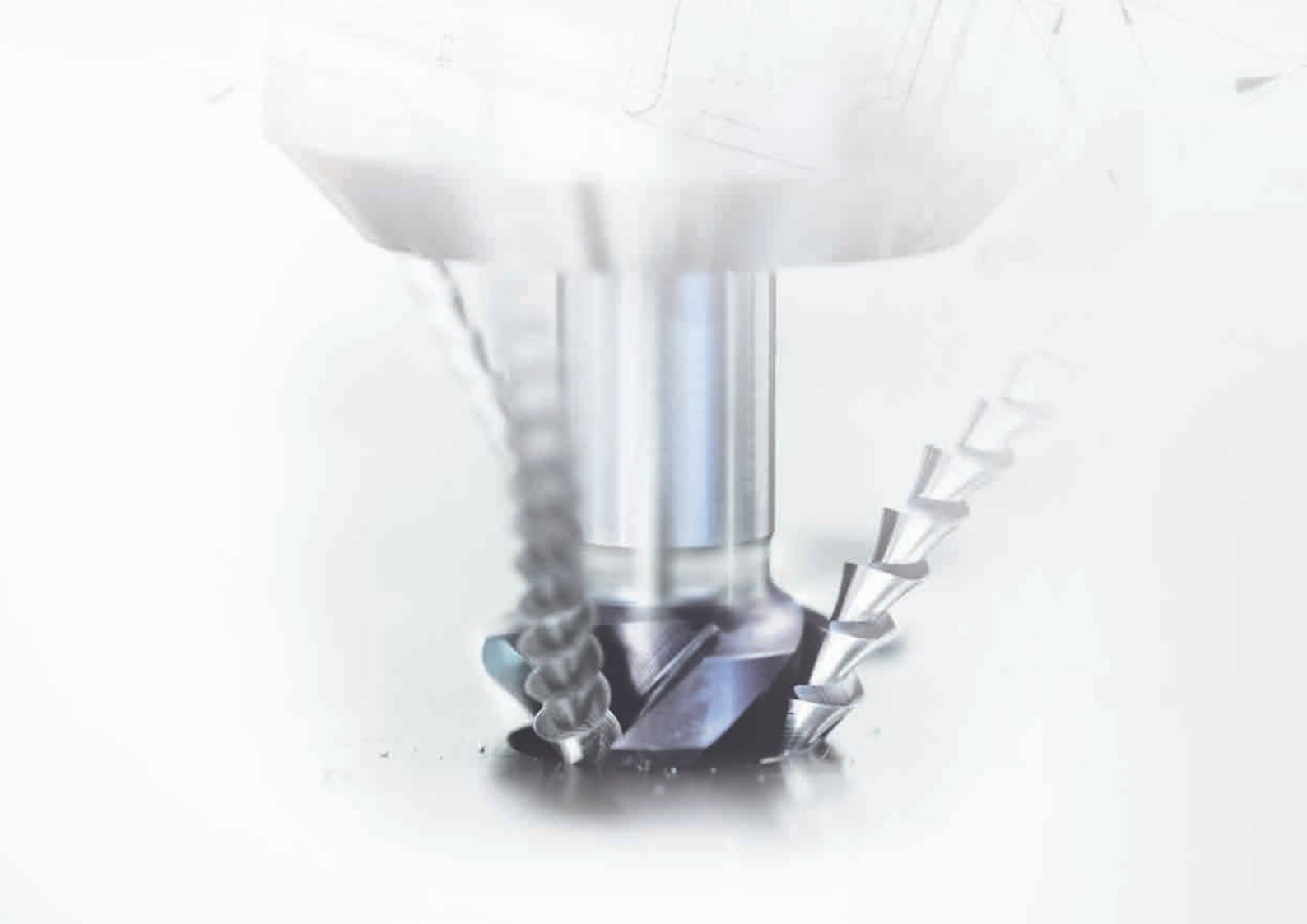
Twisted countersink V-NX

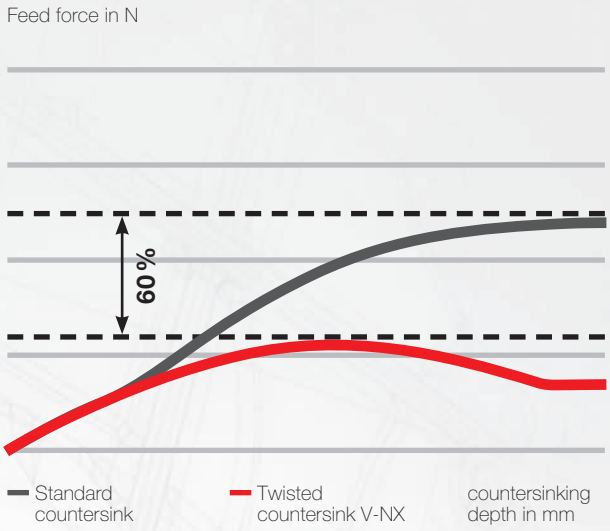
STOCK

Chip – by Chip – to the Top

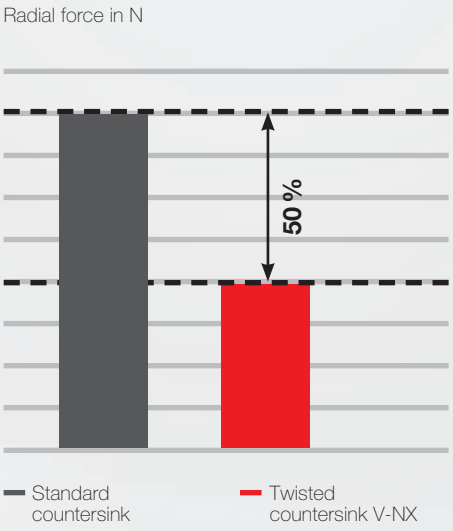
The innovative, twisted HSCO countersink

The axial and radial forces that occur during countersinking operations are strongly reduced due to the newly developed geometry of the V-NX cutting edges. Even with hand drills easy and convenient countersinking is guaranteed. The convex different radii of the cutting edges with variable helical pitch provide a stable and low-vibration countersinking process. Round, precise and chatter-free countersinking is guaranteed. The specially designed AlTiN coating ensures a higher wear resistance and high-temperature hardness which guarantee longer tool life for nearly all materials and applications.



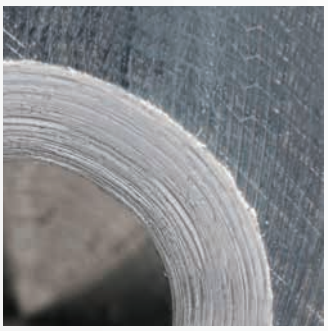


lower feed force by approx. 60 % compared to standard countersinks



lower radial force by approx. 50 % compared to standard countersinks

- standard programme
- 14 dimensions Ø 6.3 – 31.0 mm
- 90° countersink according to DIN 335 form C
- straight shank version
- version with 3-surface shank



Countersinking with standard countersink

Countersinking with twisted countersink V-NX

Countersink V-NX

CONVEX CUTTING EDGES

Three different convex cutting edges in combination with three unequal helix angles enable extremely stable and low-vibration cutting processes without any chatter marks.

AlTiN COATING

The aluminium-titanium coating is characterised by a high hardness and a good thermal resistance.

CUTTING MATERIAL

The high-speed steel containing 5% of cobalt provides a good high-temperature hardness and temper resistance.
This guarantees a long tool life and the cutting material enables machining of nearly all materials.

ISO CODES

P	Steel, high-alloyed steel
M	Stainless steel
K	Grey cast iron, spheroidal and malleable cast iron
N	Aluminium and other non-ferrous metals
S	Special-, super- and Ti-alloys
H	Hardened steel and hard cast iron

Recommendations regarding tool suitability for the following application groups can be found on the following program pages:

● optimal suitability
○ limited suitability

PICTOGRAMS

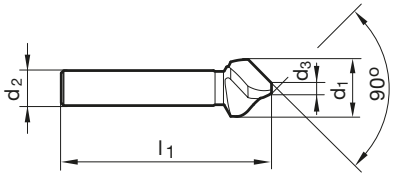
TOOL MATERIAL	HSS-Co High speed steel
SURFACE FINISH	Al-TiN
FORM	C
CUTTING DIRECTION	R right-hand
SHANK FORM	Cyl 3
POINT ANGLE	90°
STANDARD	DIN 335
TYPE	V-NX

Possible misprints or alterations do not entitle any claim. All products marked with “DIN“, deviating from the dimensions listed in the catalogue, can be delivered,as long as they are in conformity with the DIN standard form.

Countersinks HSS-Co

Countersinks 90° V-NX

Catalogue no. 52348



V-NX | DIN 335 | C | HSCO | Al-TiN | 90° | R | Cyl

P	M	K	N	S	H
●	●	●	○	○	

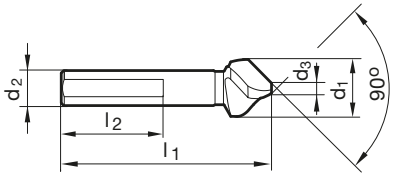
- 3 different convex cutting edges
- low-vibration cutting processes
- for round and chatter-free countersinking
- considerably lower feed force required
- for universal application

d1 mm	d2 mm	d3 mm	l1 mm	Z	Code no.
6.300	5.000	1.500	45.000	3	**6.300**
8.000	6.000	2.000	50.000	3	**8.000**
8.300	6.000	2.000	50.000	3	**8.300**
10.000	6.000	2.500	50.000	3	**10.000**
10.400	6.000	2.500	50.000	3	**10.400**
11.500	8.000	2.800	56.000	3	**11.500**
12.400	8.000	2.800	56.000	3	**12.400**
15.000	10.000	3.200	60.000	3	**15.000**
16.500	10.000	3.200	60.000	3	**16.500**
19.000	10.000	3.500	63.000	3	**19.000**
20.500	10.000	3.500	63.000	3	**20.500**
23.000	10.000	3.800	67.000	3	**23.000**
25.000	10.000	3.800	67.000	3	**25.000**
31.000	12.000	4.200	71.000	3	**31.000**
40.000	12.000	10.000	75.000	3	**40.000**

Countersinks HSS-Co

Countersinks 90° V-NX

Catalogue no. 52350



V-NX | DIN 335 | C | HSCO | Al-TiN | 90° | R | 3

P	M	K	N	S	H
●	●	●	○	○	

- 3-flats on shank prevent slipping in the chuck
- 3 different convex cutting edges
- perfect for hand drills
- low-vibration cutting processes
- for round and chatter-free countersinking
- considerably lower feed force required
- for universal application

d1 mm	d2 mm	d3 mm	l1 mm	l2 mm	Z	**Code no.**
6.300	5.000	1.500	45.000	30.000	3	**6.300**
8.000	6.000	2.000	50.000	30.000	3	**8.000**
8.300	6.000	2.000	50.000	30.000	3	**8.300**
10.000	6.000	2.500	50.000	30.000	3	**10.000**
10.400	6.000	2.500	50.000	30.000	3	**10.400**
11.500	8.000	2.800	56.000	30.000	3	**11.500**
12.400	8.000	2.800	56.000	30.000	3	**12.400**
15.000	10.000	3.200	60.000	30.000	3	**15.000**
16.500	10.000	3.200	60.000	30.000	3	**16.500**
19.000	10.000	3.500	63.000	30.000	3	**19.000**
20.500	10.000	3.500	63.000	30.000	3	**20.500**
23.000	10.000	3.800	67.000	30.000	3	**23.000**
25.000	10.000	3.800	67.000	30.000	3	**25.000**
31.000	12.000	4.200	71.000	30.000	3	**31.000**
40.000	12.000	10.000	75.000	30.000	3	**40.000**

Countersinks HSS-Co

90° Countersink sets V-NX

V-NX | DIN 335 | C | HSCO | Al-TiN | 90° | R | Cyl

P	M	K	N	S	H
●	●	●	○	○	

- consisting of catalogue no. 52348
- 3 different convex cutting edges
- low-vibration cutting processes
- for round and chatter-free countersinking
- considerably lower feed force required
- for universal application

Catalogue no. 52398

Code no.	Ø-range mm	Pieces/set
1.000	**6.3/8.3/10.4/12.4/16.5/20.5**	6

Countersinks HSS-Co

90° Countersink sets V-NX

V-NX | DIN 335 | C | HSCO | Al-TiN | 90° | R | 3

P	M	K	N	S	H
●	●	●	○	○	

- consisting of catalogue no. 52350
- 3-flats on shank prevent slipping in the chuck
- 3 different convex cutting edges
- perfect for hand drills
- low-vibration cutting processes
- for round and chatter-free countersinking
- considerably lower feed force required
- for universal application

Catalogue no. 52399

Code no.	Ø-range mm	Pieces/set
1.000	**6.3/8.3/10.4/12.4/16.5/20.5**	6

Countersink V-NX

Application recommendations

Feed column no.

Tool-Ø mm	Code letter E	F	G	H	I	J
2.00	0.03	0.04	0.06	0.08	0.10	0.13
2.50	0.03	0.05	0.07	0.10	0.13	0.16
3.15	0.03	0.05	0.08	0.11	0.15	0.20
4.00	0.04	0.06	0.09	0.13	0.17	0.22
5.00	0.04	0.07	0.10	0.14	0.18	0.23
6.30	0.04	0.07	0.12	0.15	0.19	0.24
8.00	0.05	0.08	0.13	0.16	0.20	0.25
10.00	0.06	0.09	0.14	0.17	0.22	0.26
12.50	0.06	0.10	0.15	0.19	0.23	0.28
16.00	0.07	0.11	0.17	0.21	0.26	0.31
20.00	0.08	0.13	0.18	0.23	0.28	0.33
25.00	0.09	0.15	0.21	0.26	0.30	0.38
31.50	0.12	0.17	0.24	0.30	0.36	0.42
40.00	0.14	0.21	0.28	0.34	0.40	0.46

Feed f (mm/rpm)

Tools with feed column no. in bold are preferred choices for listed material group.

Lubricants:

cutting oil, highly activated, surface active lubricant with effective additives which chemically react and result in a special adhesive and abrasion reducing lubricant film. ■

soluble oil (emulsion) ■

without lubricant □

air only ▣

Material group	Materials examples, **new designations** (old designation in brackets) Figures in bold = material no. to DIN EN	Tensile strength MPa (N/mm²)	Hardness	Coolant
General purpose steels	**1.0035** S185(St33),**1.0486** P275N(StE285),**1.0345** P235GH(H1),**1.0425** P265GH(H2)	≤500		■
	1.0050 E295 (St50-2), **1.0070** E360 (St70-2), **1.8937** P500NH (WStE500)	>500-850		■
Free-cutting steels	**1.0718** 11SMnPb30 (9SMnPb28), **1.0736** 11SMn37 (9SMn36)	≤850		■
	1.0727 46S20 (45S20), **1.0728** (60S20), **1.0757** 46SPb20 (45SPb20)	850-1000		■
Unalloyed tempering steels	**1.0402** C22, **1.1178** C30E (Ck30)	≤ 700		■
	1.0503 C45, **1.1191** C45E (Ck45)	700-850		■
	1.0601 C60, **1.1221** C60E (Ck60)	850-1000		■
Alloyed tempering steels	**1.5131** 50MnSi4, **1.7003** 38Cr2, **1.7030** 28Cr4	850-≤1000		■
	1.5710 36NiCr6, **1.7035** 41Cr4, **1.7225** 42CrMo4	1000-1200		■
Unalloyed case hardened steels	**1.0301** (C10), **1.1121** C10E (Ck10)	≤750		■
Alloyed case hardened steels	**1.7043** 38Cr4	850-≤1000		■ ■
	1.5752 15NiCr13 (15NiCr13), **1.7131** 16MnCr5, **1.7264** 20CrMo5	1000-1200		■ ■
Nitriding steels	**1.8504** 34CrAl6	≥850-≤1000		■
	1.8519 31CrMoV9, **1.8550** 34CrAlNi7	>1000-1200		■ ■
Tool steels	**1.1750** C75W, **1.2067** 102Cr6, **1.2307** 29CrMoV9	≤850		■
	1.2080 X210Cr12, **1.2083** X42Cr13, **1.2419** 105WCr6, **1.2767** X45NiCrMo4	>850-1000		■ ■
High speed steels	**1.3243** S 6-5-2-5, **1.3343** S 6-5-2, **1.3344** S 6-5-3	≥650-1000		■
Spring steels	**1.5026** 55Si7, **1.7176** 55Cr3, **1.8159** 51CrV4 (51CrV4)		≤330 HB	■ ■
Hardened steels	–		≤40-48 HRC	■
			>48-60 HRC	■
Stainless steels, sulphured	**1.4005** X12CrS13, **1.4104** X14CrMoS17, **1.4105** X6CrMoS17, **1.4305** X8CrNiS18-9	≤850		■
austenitic	**1.4301** X5CrNi18-10 (V2A), **1.4541** X6CrNiTi18-10, **1.4571** X6CrNiMoTi 17-12-2 (V4A)	≤850		■
martensitic	**1.4057** X20CrNi 17 2 (X17CrNi16-2), **1.4122** X39CrMo17-1, **1.4521** X2CrMoTi18-2	≤850		■
Cast iron	**0.6010** EN-GJL-100(GG10), **0.6020** EN-GJL-200(GG20)	850-≤1000		■ □
	0.6025 EN-GJL-250(GG25), **0.6035** EN-GJL-350(GG35)	1000-1200		■ □
Spheroidal graphite iron and	**0.7050** EN-GJS-500-7(GGG50), **0.8035** EN-GJMW-350-4(GTW35)		≤240 HB	■
malleable cast iron	**0.7070** EN-GJS-700-2(GGG70), **0.8170** EN-GJMB-700-2(GTS70)		<300 HB	■
Chilled cast iron	–		≤350 HB	■
New Cast iron GGV	**EN-GJV250** (GGV25), **EN-GJV350** (GGV35)			■ □
	EN-GJV400 (GGV40), **EN-GJV500** (GGV50), SiMo6			■ □
New Cast iron ADI	**EN-GJS-800-8** (ADI800), **EN-GJS-1000-5** (ADI1000)	800-1000		■ □
	EN-GJS-1200-2 (ADI1200), **EN-GJS-1400-1** (ADI1400)	1200-1400		■ □
Special alloys	Nimonic, Inconel, Monel, Hastelloy	≤1200		■
Ti and Ti-alloys	**3.7024** Ti99,5, **3.7114** TiAl5Sn2,5, **3.7124** TiCu2	≤850		■
	3.7154 TiAl6Zr5, **3.7165** TiAl6V4, **3.7184** TiAl4Mo4Sn2,5, - TiAl8Mo1V1	>850-1200		■
Aluminium and Al-alloys	**3.0255** Al99,5, **3.2315** AlMgSi1, **3.3515** AlMg1	≤400		■
Al wrought alloys	**3.0615** AlMgSiPb, **3.1325** AlCuMg1, **3.3245** AlMg3Si, **3.4365** AlZnMgCu1,5	≤450		■
Al cast alloys 10 % Si	**3.2131** G-AlSi5Cu1, **3.2153** G-AlSi7Cu3, **3.2573** G-AlSi9	≤600		■
> 10 % Si	**3.2581** G-AlSi12, **3.2583** G-AlSi12Cu, - G-AlSi12CuNiMg	≤600		■
Magnesium alloys	**3.5200** MgMn2, **3.5812.05** G-MgAl8Zn1, **3.5612.05** G-MgAl6Zn1	≤450		▣
Copper, low alloyed	**2.0070** SE-Cu, **2.1020** CuSn6, **2.1096** G-CuSn5ZnPb	≤400		■ ■
Brass, short-chipping	**2.0380** CuZn39Pb2, **2.0401** CuZn39Pb3, **2.0410** CuZn43Pb2	≤600		■ ■
long-chipping	**2.0250** CuZn20, **2.0280** CuZn33, **2.0332** CuZn37Pb0,5	≤600		■ ■
Bronze, short-chipping	**2.1090** CuSn7ZnPb, **2.1170** CuPb5Sn5, **2.1176** CuPb10Sn	≤600		■ ■
	2.0790 CuNi18Zn19Pb	>600-850		■
Bronze, long-chipping	**2.0916** CuAl5, **2.0960** CuAl9Mn, **2.1050** CuSn10	≤850		■
	2.0980 CuAl11Ni, **2.1247** CuBe2	>850-1000		■
Duroplastics	Epoxy resin, Resopal, Pertinax, Moltopren		–	□
Thermoplastics	Plexiglas, Hostalen, Novodur, Makralon		–	■ □
Kevlar	Kevlar		–	□
Glass/carbon-concentr. plastics	GFK/CFK		–	□

Catalogue no.	52348	52350
Tool material	HSS-Co	HSS-Co
Surface finish	AlTiN	AlTiN
DIN	335	335
Countersink angle	90°	90°
Shank form	cylindrical	3-surface

v_c m/min	Feed column no.	v_c m/min	Feed column no.
41	G	41	G
39	F	39	F
41	G	41	G
39	F	39	F
41	G	41	G
39	G	39	G
25	F	25	F
19	G	19	G
15	F	15	F
32	G	32	G
19	G	19	G
13	F	13	F
19	F	19	F
15	E	15	E
22	F	22	F
19	E	19	E
19	E	19	E
13	E	13	E
20	F	20	F
15	E	15	E
18	E	18	E
32	G	32	G
20	G	20	G
28	G	28	G
25	G	25	G
10	E	10	E
28	G	28	G
18	G	18	G
10	E	10	E
19	F	19	F
13	E	13	E
101	H	114	H
89	H	89	H
51	G	51	G
39	G	39	G
127	H	127	H
76	H	76	H
101	H	101	H
64	H	64	H
39	H	39	H
33	H	33	H
31	H	31	H
25	H	25	H
39	H	39	H
51	H	51	H

Countersink V-NX

Application recommendations

Feed column no.

Tool-Ø mm	Code letter E	F	G	H	I	J
2.00	0.03	0.04	0.06	0.08	0.10	0.13
2.50	0.03	0.05	0.07	0.10	0.13	0.16
3.15	0.03	0.05	0.08	0.11	0.15	0.20
4.00	0.04	0.06	0.09	0.13	0.17	0.22
5.00	0.04	0.07	0.10	0.14	0.18	0.23
6.30	0.04	0.07	0.12	0.15	0.19	0.24
8.00	0.05	0.08	0.13	0.16	0.20	0.25
10.00	0.06	0.09	0.14	0.17	0.22	0.26
12.50	0.06	0.10	0.15	0.19	0.23	0.28
16.00	0.07	0.11	0.17	0.21	0.26	0.31
20.00	0.08	0.13	0.18	0.23	0.28	0.33
25.00	0.09	0.15	0.21	0.26	0.30	0.38
31.50	0.12	0.17	0.24	0.30	0.36	0.42
40.00	0.14	0.21	0.28	0.34	0.40	0.46

Feed f (mm/rpm)

Tools with feed column no. in bold are preferred choices for listed material group.

Lubricants:

cutting oil, highly activated, surface active lubricant with effective additives which chemically react and result in a special adhesive and abrasion reducing lubricant film. ■

soluble oil (emulsion) ■

without lubricant □

air only ⊡

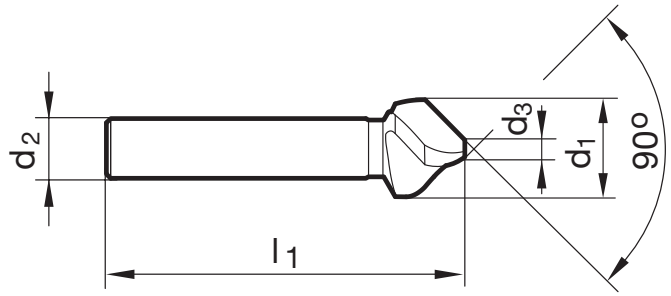
Material group	Materials examples, **new designations** (old designation in brackets) Figures in bold = material no. to DIN EN	Tensile strength MPa (N/mm²)	Hardness	Coolant
General purpose steels	**1.0035** S185(St33),**1.0486** P275N(StE285),**1.0345** P235GH(H1),**1.0425** P265GH(H2)	≤500		■
	1.0050 E295 (St50-2), **1.0070** E360 (St70-2), **1.8937** P500NH (WStE500)	>500-850		■
Free-cutting steels	**1.0718** 11SMnPb30 (9SMnPb28), **1.0736** 11SMn37 (9SMn36)	≤850		■
	1.0727 46S20 (45S20), **1.0728** (60S20), **1.0757** 46SPb20 (45SPb20)	850-1000		■
Unalloyed tempering steels	**1.0402** C22, **1.1178** C30E (Ck30)	≤ 700		■
	1.0503 C45, **1.1191** C45E (Ck45)	700-850		■
	1.0601 C60, **1.1221** C60E (Ck60)	850-1000		■
Alloyed tempering steels	**1.5131** 50MnSi4, **1.7003** 38Cr2, **1.7030** 28Cr4	850-≤1000		■
	1.5710 36NiCr6, **1.7035** 41Cr4, **1.7225** 42CrMo4	1000-1200		■
Unalloyed case hardened steels	**1.0301** (C10), **1.1121** C10E (Ck10)	≤750		■
Alloyed case hardened steels	**1.7043** 38Cr4	850-≤1000		■ ■
	1.5752 15NiCr13 (15NiCr13), **1.7131** 16MnCr5, **1.7264** 20CrMo5	1000-1200		■ ■
Nitriding steels	**1.8504** 34CrAl6	≥850-≤1000		■
	1.8519 31CrMoV9, **1.8550** 34CrAlNi7	>1000-1200		■ ■
Tool steels	**1.1750** C75W, **1.2067** 102Cr6, **1.2307** 29CrMoV9	≤850		■
	1.2080 X210Cr12, **1.2083** X42Cr13, **1.2419** 105WCr6, **1.2767** X45NiCrMo4	>850-1000		■ ■
High speed steels	**1.3243** S 6-5-2-5, **1.3343** S 6-5-2, **1.3344** S 6-5-3	≥650-1000		■
Spring steels	**1.5026** 55Si7, **1.7176** 55Cr3, **1.8159** 51CrV4 (51CrV4)		≤330 HB	■ ■
Hardened steels	–		≤40-48 HRC	■
			>48-60 HRC	■
Stainless steels, sulphured	**1.4005** X12CrS13, **1.4104** X14CrMoS17, **1.4105** X6CrMoS17, **1.4305** X8CrNiS18-9	≤850		■
austenitic	**1.4301** X5CrNi18-10 (V2A), **1.4541** X6CrNiTi18-10, **1.4571** X6CrNiMoTi 17-12-2 (V4A)	≤850		■
martensitic	**1.4057** X20CrNi 17 2 (X17CrNi16-2), **1.4122** X39CrMo17-1, **1.4521** X2CrMoTi18-2	≤850		■
Cast iron	**0.6010** EN-GJL-100(GG10), **0.6020** EN-GJL-200(GG20)	850-≤1000		■ □
	0.6025 EN-GJL-250(GG25), **0.6035** EN-GJL-350(GG35)	1000-1200		■ □
Spheroidal graphite iron and malleable cast iron	**0.7050** EN-GJS-500-7(GGG50), **0.8035** EN-GJMW-350-4(GTW35)		≤240 HB	■
	0.7070 EN-GJS-700-2(GGG70), **0.8170** EN-GJMB-700-2(GTS70)		<300 HB	■
Chilled cast iron	–		≤350 HB	■
New Cast iron GGV	**EN-GJV250** (GGV25), **EN-GJV350** (GGV35)			■ □
	EN-GJV400 (GGV40), **EN-GJV500** (GGV50), SiMo6			■ □
New Cast iron ADI	**EN-GJS-800-8** (ADI800), **EN-GJS-1000-5** (ADI1000)	800-1000		■ □
	EN-GJS-1200-2 (ADI1200), **EN-GJS-1400-1** (ADI1400)	1200-1400		■ □
Special alloys	Nimonic, Inconel, Monel, Hastelloy	≤1200		■
Ti and Ti-alloys	**3.7024** Ti99,5, **3.7114** TiAl5Sn2,5, **3.7124** TiCu2	≤850		■
	3.7154 TiAl6Zr5, **3.7165** TiAl6V4, **3.7184** TiAl4Mo4Sn2,5, - TiAl8Mo1V1	>850-1200		■
Aluminium and Al-alloys	**3.0255** Al99,5, **3.2315** AlMgSi1, **3.3515** AlMg1	≤400		■
Al wrought alloys	**3.0615** AlMgSiPb, **3.1325** AlCuMg1, **3.3245** AlMg3Si, **3.4365** AlZnMgCu1,5	≤450		■
Al cast alloys 10 % Si	**3.2131** G-AlSi5Cu1, **3.2153** G-AlSi7Cu3, **3.2573** G-AlSi9	≤600		■
> 10 % Si	**3.2581** G-AlSi12, **3.2583** G-AlSi12Cu, - G-AlSi12CuNiMg	≤600		■
Magnesium alloys	**3.5200** MgMn2, **3.5812.05** G-MgAl8Zn1, **3.5612.05** G-MgAl6Zn1	≤450		⊡
Copper, low alloyed	**2.0070** SE-Cu, **2.1020** CuSn6, **2.1096** G-CuSn5ZnPb	≤400		■ ■
Brass, short-chipping	**2.0380** CuZn39Pb2, **2.0401** CuZn39Pb3, **2.0410** CuZn43Pb2	≤600		■ ■
long-chipping	**2.0250** CuZn20, **2.0280** CuZn33, **2.0332** CuZn37Pb0,5	≤600		■ ■
Bronze, short-chipping	**2.1090** CuSn7ZnPb, **2.1170** CuPb5Sn5, **2.1176** CuPb10Sn	≤600		■ ■
	2.0790 CuNi18Zn19Pb	>600-850		■
Bronze, long-chipping	**2.0916** CuAl5, **2.0960** CuAl9Mn, **2.1050** CuSn10	≤850		■
	2.0980 CuAl11Ni, **2.1247** CuBe2	>850-1000		■
Duroplastics	Epoxy resin, Resopal, Pertinax, Moltopren		–	□
Thermoplastics	Plexiglas, Hostalen, Novodur, Makralon		–	■ □
Kevlar	Kevlar		–	□
Glass/carbon-concentr. plastics	GFK/CFK		–	□

Catalogue no.	52398	52399
Tool material	HSS-Co	HSS-Co
Surface finish	AlTiN	AlTiN
DIN	335	335
Countersink angle	90°	90°
Shank form	cylindrical	3-surface

v_c m/min	Feed column no.	v_c m/min	Feed column no.
41	G	41	G
39	F	39	F
41	G	41	G
39	F	39	F
41	G	41	G
39	G	39	G
25	F	25	F
19	G	19	G
15	F	15	F
32	G	32	G
19	G	19	G
13	F	13	F
19	F	19	F
15	E	15	E
22	F	22	F
19	E	19	E
19	E	19	E
13	E	13	E
20	F	20	F
15	E	15	E
18	E	18	E
32	G	32	G
20	G	20	G
28	G	28	G
25	G	25	G
10	E	10	E
28	G	28	G
18	G	18	G
10	E	10	E
19	F	19	F
13	E	13	E
101	H	114	H
89	H	89	H
51	G	51	G
39	G	39	G
127	H	127	H
76	H	76	H
101	H	101	H
64	H	64	H
39	H	39	H
33	H	33	H
31	H	31	H
25	H	25	H
39	H	39	H
51	H	51	H

Countersink V-NX

Smallest hole diameter to allow countersinking and suitable for countersunk screws



d1	smallest hole-Ø to allow countersinking	for countersunk screws ISO 2009, 2010, 7046, 7047	for countersunk screws DIN 7991
6.300	2.00	-	M3
8.000	2.50	M4	-
8.300	2.50	-	M4
10.000	3.00	M5	-
10.400	3.00	-	M5
11.500	3.30	M6	-
12.400	3.30	-	M6
15.000	3.70	M8	-
16.500	3.70	-	M8
19.000	4.50	M10	-
20.500	4.50	-	M10
23.000	4.80	M12	-
25.000	4.80	-	M12
31.000	5.20	-	M16
40.000	12.00	-	M24

Notes

Twisted countersink V-NX

Our Programme

Products

Twist Drills
Taps
Milling Cutters
Reamers
Countersinks & -bores
Chamfering Tools
Special HSS and Carbide Tools
(according to your specification or Stock solution)
Tool holders

Services

Regrinding
Modifications
Recoating
Paid labour coating
Coating removal
Intelligent Tool Depot Systems
Technical assistance

Your local contact:

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