

VHM-Senker und VHM-Maschinenreibahlen

E Solid carbide countersinks and solid carbide machine reamers

I Svasatori in metallo duro integrale, alesatori in metallo duro integrale



D VHM-Kegelsenker ungleiche Teilung
DIN 335 C, 90°

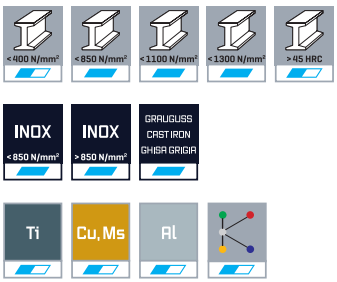
Einsatzbereich:
Für alle E- und NE-Metalle, Kunststoffe hart und weich. Universell einsetzbares Entgrat- und Senkwerkzeug für Bohrungen aller Art. Sehr gute Schneideigenschaften durch ungleichgeteilte Schneiden. Verringerung der Vorschubkraft und Ratterbildung an der Senkoberfläche durch reduzierte Axial- und Radialkraft.

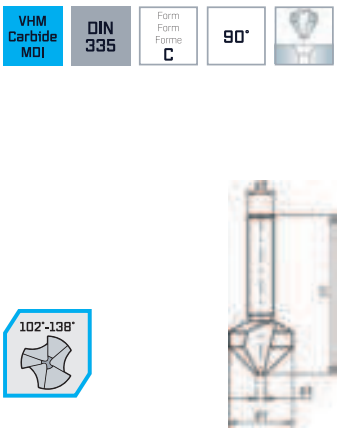
E Solid carbide countersinks different partition
DIN 335 C, 90°

Range of application:
For ferrous and non-ferrous metals, synthetic materials soft and hard. Universal deburring and sink tool for all kind of borings. Excellent cutting features guarantee a smooth surface by unequally divided cutting edges. Reduction of feed force and chatter marks on the countersinking surface due to reduced axial and radial force.

I Svasatori in metallo duro integrale disuguale tagliente
DIN 335 C, 90°

Impiego:
Adatti per tutti i materiali ferrosi, non ferrosi, plastiche dure e dolci, per sbavature e svasature di tutti i tipi di fori. Perfette proprietà di taglio, a causa di disuguale tagliente. Riduzione della forza di alimentazione e vibrazioni sulla superficie di affondamento grazie alla ridotta forza assiale e radiale.







ALUNIT®

d1 z9 mm	d2 h9 mm	d3 mm	l1 mm	Z	Code 6530 Art.-Nr.	Code 6637 Art.-Nr.
5,30	4,00	1,00	40	3	0 6530005301 00	0 6637005301 00
6,30	5,00	1,50	45	3	0 6530006301 00	0 6637006301 00
8,30	6,00	2,00	50	3	0 6530008301 00	0 6637008301 00
10,40	6,00	2,50	50	3	0 6530010401 00	0 6637010401 00
12,40	8,00	2,80	56	3	0 6530012401 00	0 6637012401 00
14,40	8,00	2,90	56	3	0 6530014401 00	0 6637014401 00
16,50	10,00	3,20	60	3	0 6530016501 00	0 6637016501 00
19,50	10,00	3,50	63	3	0 6530019501 00	0 6637019501 00
20,50	10,00	3,50	63	3	0 6530020501 00	0 6637020501 00
25,00	10,00	3,80	67	3	0 6530025001 00	0 6637025001 00
31,00	12,00	4,20	71	3	0 6530031001 00	0 6637031001 00

Ø 5,30 VHM / solid carbide / metallo duro integrale
Ø 6,30–31,00 nur VHM-Kopf / only solid carbide cutting part / testa metallo duro integrale



Standard Kegelsenker
Standard countersink
Svasatori Standard



mit ungleicher Teilung
with different partition
con divisione variabile

D VHM-Kegelsenker
DIN 335 C, 90°

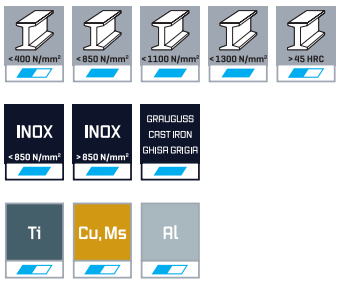
Einsatzbereich:
Zum ratterfreien Senken und Entgraten von Stählen, hochfesten Stählen, Grauguss, VA-Werkstoffen sowie siliziumhaltigen Aluminium-Legierungen.

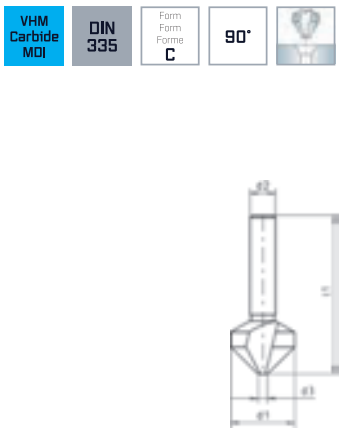
E Solid carbide countersinks
DIN 335 C, 90°

Range of application:
For countersinking and deburring of steels with medium/high tensile strength, cast iron, stainless steels as well as silicium containing aluminium-alloys.

I Svasatori in metallo duro integrale
DIN 335 C, 90°

Impiego:
Svasatura senza vibrazioni e sbavature di acciai tenaci, ghisa grigia, inox, e leghe di alluminio al silicio.









ALUNIT®

d1 z9 mm	d2 h9 mm	d3 mm	l1 mm	Z	Code 6405 Art.-Nr.	Code 6407 Art.-Nr.
5,30	4,00	1,00	40	3	0 6405005301 00	0 6407005301 00
6,30	5,00	1,50	45	3	0 6405006301 00	0 6407006301 00
8,30	6,00	2,00	50	3	0 6405008301 00	0 6407008301 00
10,40	6,00	2,50	50	3	0 6405010401 00	0 6407010401 00
12,40	8,00	2,80	56	3	0 6405012401 00	0 6407012401 00
14,40	8,00	2,90	56	3	0 6405014401 00	0 6407014401 00
16,50	10,00	3,20	60	3	0 6405016501 00	0 6407016501 00
19,50	10,00	3,50	63	3	0 6405019501 00	0 6407019501 00
20,50	10,00	3,50	63	3	0 6405020501 00	0 6407020501 00
25,00	10,00	3,80	67	3	0 6405025001 00	0 6407025001 00
31,00	12,00	4,20	71	3	0 6405031001 00	0 6407031001 00

Ø 5,30 VHM / solid carbide / metallo duro integrale
Ø 6,30–31,00 nur VHM-Kopf / only solid carbide cutting part / testa metallo duro integrale



D EU[1]-VHM-NC-Maschinenreibahlen
Linksspirale, ähnlich DIN 8093

Einsatzbereich:
Spiralgenutete Ausführung, 8° Linksspirale, vorwiegend für Durchgangsbohrungen in alle E- und NE-Metalle geeignet.

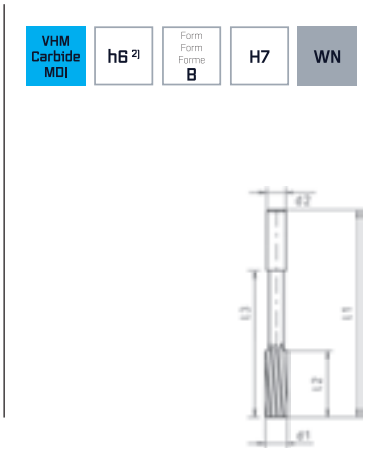
E EU[1]-Solid carbide NC-machine reamers
left hand spiral, similar to DIN 8093

Range of application:
Ferrous and non-ferrous metals. Slow helix type 8° left hand spiral.

I Alesatori a macchina NC EU[1] in metallo duro integrale
elica sinistra, simili DIN 8093

Impiego:
Alesatori con taglienti elicoidali sinistri a 8° per fori passanti in tutti i materiali ferrosi e non ferrosi.







d1 H7 mm	d2 h6 mm	l1 mm	l2 mm	l3 mm	z		Code 5210 Art.-Nr.
1,40	4,00	50	9	22	3	Ø 1,30 mm	0 5210001401 00
1,50	4,00	50	9	22	3	Ø 1,40 mm	0 5210001501 00
1,60	4,00	50	10	22	3	Ø 1,50 mm	0 5210001601 00
1,80	4,00	50	11	22	4	Ø 1,70 mm	0 5210001801 00
2,00	4,00	50	12	22	4	Ø 1,90 mm	0 5210002001 00
2,20	4,00	50	12	22	4	Ø 2,10 mm	0 5210002201 00
2,50	4,00	60	16	32	4	Ø 2,40 mm	0 5210002501 00
2,80	4,00	64	17	28	6	Ø 2,70 mm	0 5210002801 00
3,00	4,00	64	17	28	6	Ø 2,90 mm	0 5210003001 00
3,20	4,00	68	18	34	6	Ø 3,10 mm	0 5210003201 00
3,50	4,00	74	20	35	6	Ø 3,40 mm	0 5210003501 00
4,00	4,00	77	21	45	6	Ø 3,90 mm	0 5210004001 00
4,50	6,00	82	23	52	6	Ø 4,40 mm	0 5210004501 00
5,00	6,00	93	26	58	6	Ø 4,90 mm	0 5210005001 00
5,50	6,00	93	26	57	6	Ø 5,30 mm	0 5210005501 00
6,00	6,00	93	26	57	6	Ø 5,80 mm	0 5210006001 00
6,50	6,00	101	28	65	6	Ø 6,30 mm	0 5210006501 00
7,00	8,00	109	31	73	6	Ø 6,80 mm	0 5210007001 00
7,50	8,00	109	31	73	6	Ø 7,30 mm	0 5210007501 00
8,00	8,00	117	33	81	6	Ø 7,80 mm	0 5210008001 00
8,50	10,00	117	33	81	6	Ø 8,30 mm	0 5210008501 00
9,00	10,00	125	36	85	6	Ø 8,80 mm	0 5210009001 00
9,50	10,00	125	36	85	6	Ø 9,30 mm	0 5210009501 00
10,00	10,00	133	38	93	6	Ø 9,80 mm	0 5210010001 00
10,50	10,00	133	38	93	6	Ø 10,30 mm	0 5210010501 00
11,00	10,00	142	41	102	6	Ø 10,80 mm	0 5210011001 00
11,50	10,00	142	41	102	6	Ø 11,30 mm	0 5210011501 00
12,00	10,00	151	44	111	6	Ø 11,80 mm	0 5210012001 00
14,00	14,00	160	47	114	8	Ø 13,80 mm	0 5210014001 00
16,00	14,00	170	52	124	8	Ø 15,80 mm	0 5210016001 00
18,00	14,00	182	56	136	8	Ø 17,80 mm	0 5210018001 00
20,00	16,00	195	60	147	8	Ø 19,80 mm	0 5210020001 00

[1] Ausführung in extrem ungleicher Teilung. / Execution in extremely non-uniform pitch. / Esecuzione con divisione molto irregolare.
[2] ganzzahliger Schaftdurchmesser / nominal shank / diam. codolo nominale

Ø 1,40–12,00 VHM / solid carbide / metallo duro integrale
Ø 14,00–20,00 nur VHM-Kopf / only solid carbide cutting part / parte taglienti metallo duro intregrale

