



## HSS-Flachsenker, Kegelsenker

**E** HSS counterbores, countersinks

**I** HSS allargatori per sedi viti, svasatori



HSS-Senker  
HSS countersinks  
HSS svasatori

**D** Übersicht  
HSS-Senker



















































































**E** Overview  
HSS countersinks

**I** Sommario  
Svasatori HSS

**D** Die Schnittwerte für alle Werkzeuge entnehmen Sie bitte unserem separaten Zerspanungshandbuch.

**E** You will find the cutting conditions for all tools in our separate cutting manual.

**I** Per i parametri di lavorazione per tutti gli utensili richiedete il nostro manuale tecnico.

	Kegelsenker / Countersinks Svasatori				
					
					
Norm / Standard	DIN 334	DIN 335			
Typ / Typ / Tipo	60°	90°	90°	90°	90°
Form / Forma	C	C	C	C	C
Schneidstoff / Cutting material / Acciaio punta	HSS-Co5	HSS-Co5	HSS-Co5	HSS-Co5	HSS-Co5
Beschichtung / Coating / Rivestimento			ALUNIT®		ALUNIT®
Ø mm	6,3-25	6,3-31	6,3-31	6,3-31	6,3-31
Code / Codice	2280	2390	2397	2380	2387
Seite / Page / Pagina	380	380	380	381	381
Geeignet für / Suitable for / Adatte per					
 <b>Stähle &lt; 400 N/mm<sup>2</sup></b> Steels < 400 N/mm <sup>2</sup> Acciai < 400 N/mm <sup>2</sup>					
 <b>Stähle &lt; 850 N/mm<sup>2</sup></b> Steels < 850 N/mm <sup>2</sup> Acciai < 850 N/mm <sup>2</sup>					
 <b>Stähle &lt; 1.100 N/mm<sup>2</sup></b> Steels < 1.100 N/mm <sup>2</sup> Acciai < 1.100 N/mm <sup>2</sup>					
 <b>Stähle &lt; 1.300 N/mm<sup>2</sup></b> Steels < 1.300 N/mm <sup>2</sup> Acciai < 1.300 N/mm <sup>2</sup>					
 <b>Stähle &gt; 45 HRC</b> Steels > 45 HRC Acciai > 45 HRC					
 <b>INOX &lt; 850 N/mm<sup>2</sup></b> Rostfreie Stähle < 850 N/mm <sup>2</sup> Stainless steels < 850 N/mm <sup>2</sup> Acciai inossidabili < 850 N/mm <sup>2</sup>					
 <b>INOX &gt; 850 N/mm<sup>2</sup></b> Rostfreie Stähle > 850 N/mm <sup>2</sup> Stainless steels > 850 N/mm <sup>2</sup> Acciai inossidabili > 850 N/mm <sup>2</sup>					
 <b>Grauguss, Temperguss</b> Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile					
 <b>Ti</b> Titan- und Titanlegierung Titanium and titanium alloys Titanio e leghe di Titanio					
 <b>Cu, Ms</b> Kupfer, Messing Copper, brass Rame, ottone					
 <b>Al</b> Aluminium Aluminium Alluminio					
 <b>Kunststoffe</b> Plastics Materie plastiche					

**D** **Übersicht**  
HSS-Senker

**E** **Overview**  
HSS countersinks

**I** **Sommario**  
Svasatori HSS

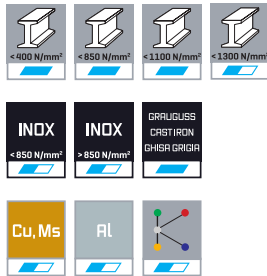
Kegelsenker / Countersinks Svasatori			Flachsenker / Counterbores Allargatori per sedi viti			Führungszapfen / Pilots Guide	
							
DIN 335			DIN 373			DIN 375	
90°	90°	90°	N	N	N	DIN 1868	
C	C	D	fein / fine	mittel/medium/media		fein / fine	mittel/medium/media
HSS-Co5	HSS-Co5	HSS-Co5	HSS	HSS	HSS	HSS	HSS
	ALUNIT®						
4,3-31	5-31	25-50	M3 - M12	M4 - M12	M10 - M24	M10 - M24	M10 - M24
2290	2297	2330	2140	2150	2160	2180	2190
382	382	383	384	384	385	386	386
							
							
							
							
							
							
							
							
							
							

 Ideal / Ideale / Ideale |  Geeignet / Suitable / Adatte

HSS-Senker  
HSS countersinks  
HSS svasatori

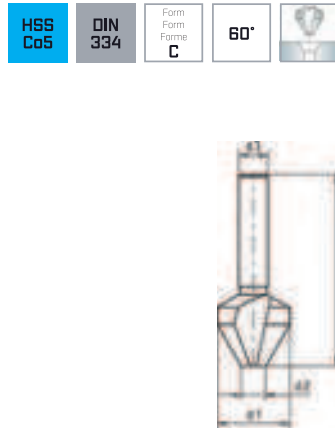
**D** Kegelsenker  
DIN 334 C, 60°

**Einsatzbereich:**  
Für alle E- und NE-Metalle, Kunststoffe hart und weich. Universell einsetzbares Entgrat- und Senkwerkzeug für Bohrungen aller Art. Sehr gute Schneideigenschaften, durch radialen Hinter-schliff leicht nachschärfbar an der Spanfläche.



**E** Countersinks  
DIN 334 C, 60°

**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; profile relief facilitates an easy regrind.



**I** Svasatori  
DIN 334 C, 60°

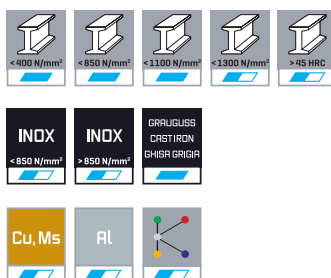
**Impiego:**  
Adatti per tutti i materiali ferrosi, non ferrosi, plastiche dure e dolci, per sbavature e svasature di tutti i tipi di fori. Ottime proprietà di taglio, mentre la spoglia radiale permette una facile riaffilatura.



d1 mm	d2 mm	d3 h9 mm	l1 mm	Z	Code 2280 Art.-Nr.
6,30	1,60	5,00	45	3	0 2280006301 00
8,00	2,00	6,00	50	3	0 2280008001 00
12,50	3,20	8,00	56	3	0 2280012501 00
16,00	4,00	10,00	63	3	0 2280016001 00
20,00	5,00	10,00	67	3	0 2280020001 00
25,00	6,30	10,00	71	3	0 2280025001 00

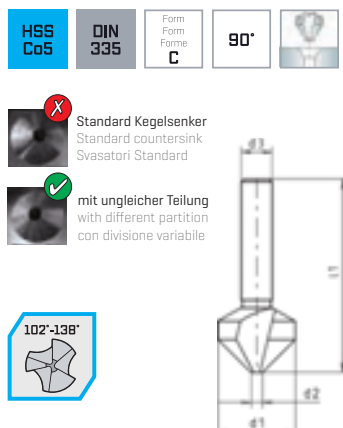
**D** HSS Cobalt-Kegelsenker ungleiche Teilung  
DIN 335 C, 90°

**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** HSS Cobalt 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 unequaly divided cutting edges. Reduction of feed force and chatter marks on the countersinking surface due to reduced axial and radial force.




**I** Svasatori HSS Cobalt 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.



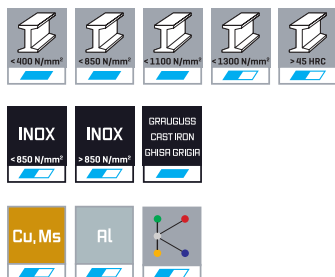
ALUNIT®

d1 mm		d2 mm	d3 <sub>h9</sub> mm	l1 mm	Z	Code 2390 Art.-Nr.	Code 2397 Art.-Nr.
6,30	M3	1,50	5,00	45	3	0 2390006301 00	0 2397006301 00
<b>New</b> 8,30	M4	2,00	6,00	50	3	0 2390008301 00	0 2397008301 00
10,40	M5	2,50	6,00	50	3	0 2390010401 00	0 2397010401 00
12,40	M6	2,80	8,00	56	3	0 2390012401 00	0 2397012401 00
16,50	M8	3,20	10,00	60	3	0 2390016501 00	0 2397016501 00
20,50	M10	3,50	10,00	63	3	0 2390020501 00	0 2397020501 00
25,00	M12	3,80	10,00	67	3	0 2390025001 00	0 2397025001 00
31,00		4,20	12,00	71	3	0 2390031001 00	0 2397031001 00

**D** HSS Cobalt-Kegelsenker 3-Flächenschaft, ungleiche Teilung, DIN 335 C, 90°

**Einsatzbereich:**

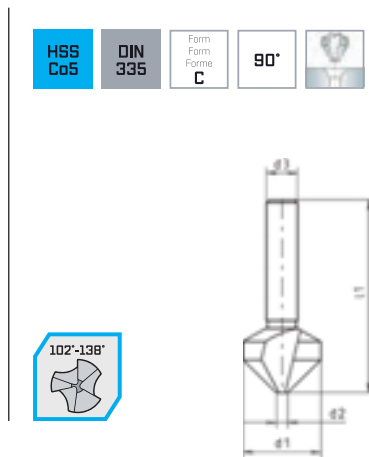
Für alle E- und NE-Metalle, Kunststoffe hart und weich. Universell einsetzbares Entgrat- und Senkwerkzeug für Bohrungen aller Art. Sehr gute Schneideigenschaften durch ungleichgeteilte Schneiden. Verringerung der Vorschubkraft und Ratterbildung an der Senkoberfläche durch reduzierte Axial- und Radialkraft.



**E** HSS Cobalt countersinks 3-surface shank, 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 HSS Cobalt Codolo a 3 superfici disuguale tagliente DIN 335 C, 90°

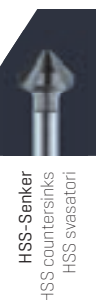
**Impiego:**

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 mm		d2 mm	d3 <sub>h9</sub> mm	l1 mm	Z	Code 2380 Art.-Nr.	Code 2387 Art.-Nr.
6,30	M3	1,50	5,00	45	3	0 2380006301 00	0 2387006301 00
8,30	M4	2,00	6,00	50	3	0 2380008301 00	0 2387008301 00
10,40	M5	2,50	6,00	50	3	0 2380010401 00	0 2387010401 00
12,40	M6	2,80	8,00	56	3	0 2380012401 00	0 2387012401 00
16,50	M8	3,20	10,00	60	3	0 2380016501 00	0 2387016501 00
20,50	M10	3,50	10,00	63	3	0 2380020501 00	0 2387020501 00
25,00	M12	3,80	10,00	67	3	0 2380025001 00	0 2387025001 00
31,00		4,20	12,00	71	3	0 2380031001 00	0 2387031001 00

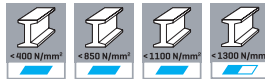


**D** Kegelsenker

DIN 335 C,  
90°

**Einsatzbereich:**

Für alle E- und NE-Metalle, Kunststoffe hart und weich. Universell einsetzbares Entgrat- und Senkwerkzeug für Bohrungen aller Art. Gute Schneideigenschaften, durch radialen Hinterschliff leicht nachschärfbar an der Spanfläche.

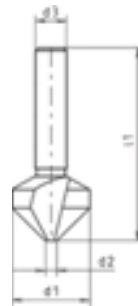


**E** Countersinks

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. Good cutting features guarantee a smooth surface; profile relief facilitates an easy regrind.



**I** Svasatori

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. Ottime proprietà di taglio, mentre la spoglia radiale permette una facile riaffilatura.



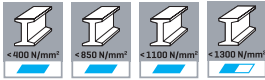
ALLUNIT®

d1 mm	d2 mm	d3 <sub>h9</sub> mm	l1 mm	Z	Code 2290 Art.-Nr.	Code 2297 Art.-Nr.
4,30	1,30	4,00	40	3	0 2290004301 00	
5,00	1,50	4,00	40	3	0 2290005001 00	0 2297005001 00
5,30	1,50	4,00	40	3	0 2290005301 00	
6,00	1,50	5,00	45	3	0 2290006001 00	0 2297006001 00
6,30	1,50	5,00	45	3	0 2290006301 00	0 2297006301 00
8,00	2,00	6,00	50	3	0 2290008001 00	0 2297008001 00
8,30	2,00	6,00	50	3	0 2290008301 00	0 2297008301 00
9,40	2,20	6,00	50	3	0 2290009401 00	
10,00	2,50	6,00	50	3	0 2290010001 00	0 2297010001 00
10,40	2,50	6,00	50	3	0 2290010401 00	0 2297010401 00
11,50	2,80	8,00	56	3	0 2290011501 00	
12,40	2,80	8,00	56	3	0 2290012401 00	0 2297012401 00
13,40	2,90	8,00	56	3	0 2290013401 00	
15,00	3,20	10,00	60	3	0 2290015001 00	0 2297015001 00
16,50	3,20	10,00	60	3	0 2290016501 00	0 2297016501 00
19,00	3,50	10,00	63	3	0 2290019001 00	0 2297019001 00
20,50	3,50	10,00	63	3	0 2290020501 00	0 2297020501 00
23,00	3,80	10,00	67	3	0 2290023001 00	
25,00	3,80	10,00	67	3	0 2290025001 00	0 2297025001 00
31,00	4,20	12,00	71	3	0 2290031001 00	0 2297031001 00

## D Kegelsenker mit MK-Schaft DIN 335 D, 90°

### Einsatzbereich:

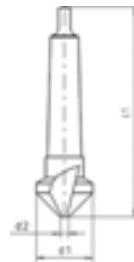
Für alle E- und NE-Metalle, Kunststoffe hart und weich. Universell einsetzbares Entgrat- und Senkwerkzeug für Bohrungen aller Art. Sehr gute Schneideigenschaften, durch radialen Hinterschliff leicht nachschärfbar an der Spanfläche.



## E Countersinks with MT-Shank DIN 335 D, 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; profile relief facilitates an easy regrind.



## I Svasatori cono morse DIN 335 D, 90°

### Impiego:

Adatti per tutti i materiali ferrosi, non ferrosi, plastiche dure e dolci, per sbavature e svasature di tutti i tipi di fori. Ottime proprietà di taglio, mentre la spoglia radiale permette una facile riaffilatura.



d1 mm	d2 mm	l1 mm	Z	Code 2330 Art.-Nr.
25,00	3,80	106	2 3	0 2330025001 00
31,00	4,20	112	2 3	0 2330031001 00
34,00	4,50	118	2 3	0 2330034001 00
37,00	4,80	118	2 3	0 2330037001 00
40,00	10,00	140	3 3	0 2330040001 00
50,00	14,00	150	3 3	0 2330050001 00



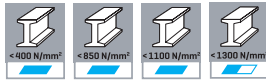


**D** Flachsenker

DIN 373, fein

**Einsatzbereich:**

Für alle E- und NE-Metalle, Kunststoffe hart und weich. Zur Verwendung in Durchgangslöcher nach DIN 273 Gütegrad „fein“ bei Einzel- und Serienfertigung. Zum Versenken von Innensechskantschrauben DIN 912, 6912, 7984 und Zylinderschrauben ISO 1207 (DIN 84).

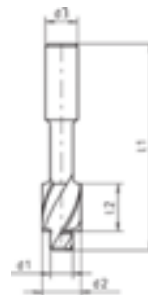


**E** Counterbores

DIN 373, fine

**Range of application:**

For ferrous and non-ferrous metals, synthetic materials soft and hard, for working in through holes according to DIN 273 Quality level "fine". Suitable in individual and mass production. For countersinking Allen screws DIN 912, 6912, 7984 and cheese-head screws ISO 1207 (DIN 84).



**I** Allargatori per sedi viti

DIN 373, fine

**Impiego:**

Adatti per tutti i materiali ferrosi, non ferrosi, plastiche dure e dolci, per fori passanti secondo DIN 273 Grado di precisione "fino", sia per lavorazioni singole che di serie. Per accicare le viti ad esagono cavo DIN 912, 6912, 7984 e le viti a testa cilindrica ISO 1207 (DIN 84).



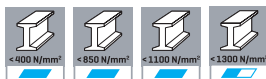
	d1 <sub>e8</sub> mm	d2 <sub>z9</sub> mm	d3 <sub>h9</sub> mm	l1 mm	l2 mm	Z	Code 2140 Art.-Nr.
<b>M 3</b>	3,20	6,00	5,00	71	14	3	0 2140006001 00
<b>M 4</b>	4,30	8,00	5,00	71	14	3	0 2140008001 00
<b>M 5</b>	5,30	10,00	8,00	80	18	3	0 2140010001 00
<b>M 6</b>	6,40	11,00	8,00	80	18	3	0 2140011001 00
<b>M 8</b>	8,40	15,00	12,50	100	22	3	0 2140015001 00
<b>M10</b>	10,50	18,00	12,50	100	22	3	0 2140018001 00
<b>M12</b>	13,00	20,00	12,50	100	22	3	0 2140020001 00

**D** Flachsenker

DIN 373, mittel

**Einsatzbereich:**

Für alle E- und NE-Metalle, Kunststoffe hart und weich. Zur Verwendung in Durchgangslöcher nach DIN 273 Gütegrad „mittel“ bei Einzel- und Serienfertigung. Zum Versenken von Innensechskantschrauben DIN 912, 6912, 7984 und Zylinderschrauben ISO 1207 (DIN 84).

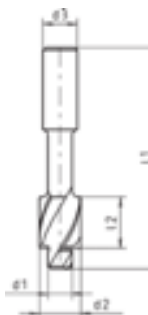


**E** Counterbores

DIN 373, medium

**Range of application:**

For ferrous and non-ferrous metals, synthetic materials soft and hard, for working in through holes according to DIN 273 Quality level "medium". Suitable in individual and mass production. For countersinking Allen screws DIN 912, 6912, 7984 and cheese-head screws ISO 1207 (DIN 84).




**I** Allargatori per sedi viti

DIN 373, media

**Impiego:**

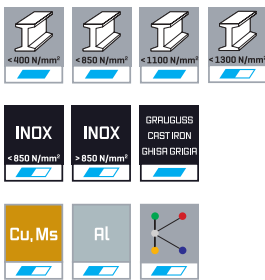
Adatti per tutti i materiali ferrosi, non ferrosi, plastiche dure e dolci, per fori passanti secondo DIN 273 Grado di precisione "medio", sia per lavorazioni singole che di serie. Per accicare le viti ad esagono cavo DIN 912, 6912, 7984 e le viti a testa cilindrica ISO 1207 (DIN 84).



	d1 <sub>g8</sub> mm	d2 <sub>z8</sub> mm	d3 <sub>h8</sub> mm	l1 mm	l2 mm	Z	Code 2150 Art.-Nr.
<b>M 4</b>	4,50	8,00	5,00	71	14	3	0 2150008001 00
<b>M 5</b>	5,50	10,00	8,00	80	18	3	0 2150010001 00
<b>M 6</b>	6,60	11,00	8,00	80	18	3	0 2150011001 00
<b>M 8</b>	9,00	15,00	12,50	100	22	3	0 2150015001 00
<b>M10</b>	11,00	18,00	12,50	100	22	3	0 2150018001 00
<b>M12</b>	13,50	20,00	12,50	100	22	3	0 2150020001 00

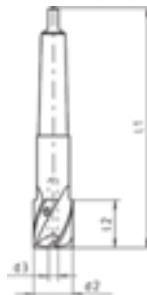
**D Flachsenker für auswechselbare Führungszapfen, MK-Schaft, DIN 375**

**Einsatzbereich:**  
Für alle E- und NE-Metalle, Kunststoffe hart und weich. Zur Verwendung in Durchgangslöcher nach DIN 273 bei Einzel- und Serienfertigung.



**E Counterbores for detachable pilots, MT-shank, DIN 375**


**Range of application:**  
For ferrous and non-ferrous metals, synthetic materials soft and hard, for working in through holes according to DIN 273. Suitable in individual and mass production.



**I Allargatori con guida intercambiabile, Cono morse, DIN 375**

**Impiego:**  
Adatti per tutti i materiali ferrosi, non ferrosi plastiche dure e dolci, per fori passanti secondo DIN 273, sia per lavorazioni singole che di serie.



	d2 <sub>z8</sub> mm	d3 mm	l1 mm	l2 mm	Z	Code 2160 Art.-Nr.
<b>M10</b>	18,00	5,00	140	25	2 3	0 2160018001 00
<b>M12</b>	20,00	5,00	140	25	2 3	0 2160020001 00
<b>M14</b>	24,00	6,00	150	30	2 3	0 2160024001 00
<b>M16</b>	26,00	8,00	180	35	3 3	0 2160026001 00
<b>M18</b>	30,00	8,00	180	35	3 3	0 2160030001 00
<b>M20</b>	33,00	10,00	190	40	3 3	0 2160033001 00
<b>M24</b>	40,00	10,00	190	40	3 3	0 2160040001 00



HSS-Senker  
HSS countersinks  
HSS svasatori

**D Führungszapfen**

DIN 1868

**Einsatzbereich:**  
Für Flachsenker DIN 375 und Kegelsenker  
DIN 1867 für Durchgangslöcher nach DIN 69.

**E Pilots**

DIN 1868

**Range of application:**  
For counterbores DIN 375 and countersinks  
DIN 1867 for body holes according to DIN 69.

**I Guide**

DIN 1868

**Impiego:**  
Per allargatori DIN 375 e svasatori DIN 1867. Adatte  
per fori passanti secondo DIN 69.

HSS DIN 1868



für Durchgangslöcher „fein“ / for body holes „fine“ / per fori passanti „fine“

	d1 <sub>e8</sub> mm	d2 <sub>f7</sub> mm	Code 2180 Art.-Nr.
M10	10,50	5,00	0 2180010501 00
M12	13,00	5,00	0 2180013001 00
M14	15,00	6,00	0 2180015001 00
M16	17,00	8,00	0 2180017001 00
M18	19,00	8,00	0 2180019001 00
M20	21,00	10,00	0 2180021001 00
M24	25,00	10,00	0 2180025001 00

**D Führungszapfen**

DIN 1868

**Einsatzbereich:**  
Für Flachsenker DIN 375 und Kegelsenker  
DIN 1867 für Durchgangslöcher nach DIN 69.

**E Pilots**

DIN 1868

**Range of application:**  
For counterbores DIN 375 and countersinks  
DIN 1867 for body holes according to DIN 69.

**I Guide**

DIN 1868

**Impiego:**  
Per allargatori DIN 375 e svasatori DIN 1867. Adatte  
per fori passanti secondo DIN 69.

HSS DIN 1868



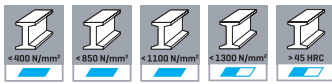
für Durchgangslöcher „mittel“ / for body holes „medium“ / per fori passanti „media“

	d1 <sub>e8</sub> mm	d2 <sub>f7</sub> mm	Code 2190 Art.-Nr.
M10	11,00	5,00	0 2190011001 00
M12	13,50	5,00	0 2190013501 00
M14	15,50	6,00	0 2190015501 00
M16	17,50	8,00	0 2190017501 00
M18	20,00	8,00	0 2190020001 00
M20	22,00	10,00	0 2190022001 00
M24	26,00	10,00	0 2190026001 00

**D** HSS-Co5  
Kegelsenkersätze  
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.



**E** HSS-Co5  
Countersink-sets  
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.

**I** Assortimenti svasatori  
HSS-Co5  
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. Ottime proprietà di taglio.



**HSS Co5-Kegelsenker-Satz, 4-tlg.**  
**HSS Co5-Countersink set, 4 pcs.**  
**Assortimento svasatori HSS Co5, 4 pz.**

**Inhalt / Contents / Contenuto:**  
Code 2397 Ø 10,4 | 16,5 | 20,5 | 25,0  
Art.-Nr. 0 2397000041 00



**HSS Co5-Kegelsenker-Satz, 4-tlg.**  
**HSS Co5-Countersink set, 4 pcs.**  
**Assortimento svasatori HSS Co5, 4 pz.**

**Inhalt / Contents / Contenuto:**  
Code 2390 Ø 10,4 | 16,5 | 20,5 | 25,0  
Art.-Nr. 0 2390000041 00



**HSS Co5-Kegelsenker-Satz, 4-tlg.**  
**HSS Co5-Countersink set, 4 pcs.**  
**Assortimento svasatori HSS Co5, 4 pz.**

**Inhalt / Contents / Contenuto:**  
Code 2387 Ø 10,4 | 16,5 | 20,5 | 25,0  
Art.-Nr. 0 2387000041 00



**HSS Co5-Kegelsenker-Satz, 4-tlg.**  
**HSS Co5-Countersink set, 4 pcs.**  
**Assortimento svasatori HSS Co5, 4 pz.**

**Inhalt / Contents / Contenuto:**  
Code 2380 Ø 10,4 | 16,5 | 20,5 | 25,0  
Art.-Nr. 0 2380000041 00



**HSS Co5-Kegelsenker-Satz, 4-tlg., Alunit®**  
**HSS Co5 Countersink set, 4 pcs., Alunit®**  
**Assortimenti svasatori HSS Co5, 4 pz., Alunit®**

**Inhalt / Contents / Contenuto:**  
Code 2297 Ø 10,4 | 16,5 | 20,5 | 25,0  
Art.-Nr. 0 2297000041 00



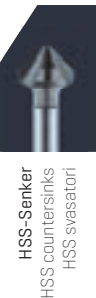
**HSS Co5-Kegelsenker-Satz, 4-tlg.**  
**HSS Co5 Countersink set, 4 pcs.**  
**Assortimenti svasatori HSS Co5, 4 pz.**

**Inhalt / Contents / Contenuto:**  
Code 2290 Ø 10,4 | 16,5 | 20,5 | 25,0  
Art.-Nr. 0 2290000041 00



**HSS Co5-Kegelsenker-Satz, 6-tlg.**  
**HSS Co5-Countersink set, 6 pcs.**  
**Assortimento svasatori HSS Co5, 6 pz.**

**Inhalt / Contents / Contenuto:**  
Code 2290 Ø 6,3 | 8,3 | 10,4 | 12,4 | 16,5 | 20,5  
Art.-Nr. 0 2290000961 00



HSS-Senker  
HSS countersinks  
HSS svasatori