

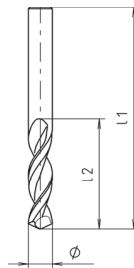
**D HPT- Spiralbohrer**  
extra kurz, DIN 1897

Hochleistungs-Spiralbohrer mit Forte-Sonderprofil für optimierte Spanbildung. Besonders geeignet für den Einsatz auf Bearbeitungszentren und Drehautomaten. Breiter Anwendungsbereich in allen, vorzugsweise langspanenden, Werkstoffen bis ca. 1.300 N/mm<sup>2</sup>, auch für rostfreie-austenitische Stähle. Geeignet für die Trockenbearbeitung in Stahlwerkstoffen.



**E HPT- stub drills**  
extra short series, DIN 1897

Range of application:  
High-performance-twist drills with FORTE-special profile for optimized chipping. Especially suitable for machining-centres and automatic lathes. Wide range of application for all materials up to approx. 1.300 N/mm<sup>2</sup>, predominately long chipping materials as well as for stainless-austenitic steels. Suitable for dry cutting steels.



**I HPT- punte elicoidali**  
serie extra corta, DIN 1897

Impiego:  
Punte ad alto rendimento con profilo FORTE per ottimale asportazione del truciolo. Adatte per centri di lavorazione e torni automatici. Vasto campo d'impiego per tutti i metalli a truciolo lungo fino a ca. 1.300 N/mm<sup>2</sup> e acciai inox e austenitici. Adatte per lavorazioni a secco di materiali ferrosi.

Pulverstahl  
Powder steel  
Acciaio da polveri



ALUNIT®

ALUNIT®


$\emptyset$ h8 mm	l1 mm	l2 mm	Code 900 Art.-Nr.	
2,80	49*	18*	00 900002801 00	1
2,90	49*	18*	00 900002901 00	1
3,00	49*	18*	00 900003001 00	1
3,10	52*	20*	00 900003101 00	1
3,20	52*	20*	00 900003201 00	1
3,30	52*	20*	00 900003301 00	1
3,40	55*	22*	00 900003401 00	1
3,50	55*	22*	00 900003501 00	1
3,60	55*	22*	00 900003601 00	1
3,70	55*	22*	00 900003701 00	1
3,80	55	22	00 900003801 00	1
3,90	55	22	00 900003901 00	1
4,00	55	22	00 900004001 00	1
4,10	55	22	00 900004101 00	1
4,20	55	22	00 900004201 00	1
4,30	58	24	00 900004301 00	1
4,40	58	24	00 900004401 00	1
4,50	58	24	00 900004501 00	1
4,60	58	24	00 900004601 00	1
4,65	58	24	00 900004651 00	1
4,70	58	24	00 900004701 00	1
4,80	62	26	00 900004801 00	1
4,90	62	26	00 900004901 00	1
5,00	62	26	00 900005001 00	1
5,10	62	26	00 900005101 00	1
5,20	62	26	00 900005201 00	1
5,30	62	26	00 900005301 00	1
5,40	66	28	00 900005401 00	1
5,50	66	28	00 900005501 00	1
5,55	66	28	00 900005551 00	1
5,60	66	28	00 900005601 00	1
5,70	66	28	00 900005701 00	1
5,80	66	28	00 900005801 00	1
5,90	66	28	00 900005901 00	1
6,00	66	28	00 900006001 00	1
6,10	70	31	00 900006101 00	1

$\emptyset$ h8 mm	l1 mm	l2 mm	Code 900 Art.-Nr.	
6,20	70	31	00 900006201 00	1
6,30	70	31	00 900006301 00	1
6,40	70	31	00 900006401 00	1
6,50	70	31	00 900006501 00	1
6,60	70	31	00 900006601 00	1
6,70	70	31	00 900006701 00	1
6,80	74	34	00 900006801 00	1
6,90	74	34	00 900006901 00	1
7,00	74	34	00 900007001 00	1
7,10	74	34	00 900007101 00	1
7,20	74	34	00 900007201 00	1
7,30	74	34	00 900007301 00	1
7,40	74	34	00 900007401 00	1
7,50	74	34	00 900007501 00	1
7,60	79	37	00 900007601 00	1
7,70	79	37	00 900007701 00	1
7,80	79	37	00 900007801 00	1
7,90	79	37	00 900007901 00	1
8,00	79	37	00 900008001 00	1
8,10	79	37	00 900008101 00	1
8,20	79	37	00 900008201 00	1
8,30	79	37	00 900008301 00	1
8,40	79	37	00 900008401 00	1
8,50	79	37	00 900008501 00	1
8,60	84	40	00 900008601 00	1
8,70	84	40	00 900008701 00	1
8,80	84	40	00 900008801 00	1
8,90	84	40	00 900008901 00	1
9,00	84	40	00 900009001 00	1
9,10	84	40	00 900009101 00	1
9,20	84	40	00 900009201 00	1
9,30	84	40	00 900009301 00	1
9,40	84	40	00 900009401 00	1
9,50	84	40	00 900009501 00	1
9,60	89	43	00 900009601 00	1
9,70	89	43	00 900009701 00	1


\* Entspricht nicht der DIN / Not corresponding to DIN / Non secondo DIN

HSS-Bohrer  
HSS drills  
HSS punte elicoidali

ALLUNIT®

Ø <sub>h8</sub> mm	l1 mm	l2 mm	Code 900 Art.-Nr.	
9,80	89	43	00 900009801 00	1
9,90	89	43	00 900009901 00	1
10,00	89	43	00 900010001 00	1
10,20	89	43	00 900010201 00	1

ALLUNIT®

Ø <sub>h8</sub> mm	l1 mm	l2 mm	Code 900 Art.-Nr.	
10,50	89	43	00 900010501 00	1
11,00	95	47	00 900011001 00	1
11,50	95	47	00 900011501 00	1
12,00	102	51	00 900012001 00	1

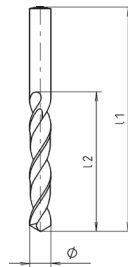
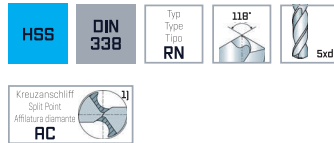
**D** Spiralbohrer  
kurz, DIN 338 RN

**Einsatzbereich:**  
Spiralbohrer präzisionsgeschliffen, zum Bohren von legierten und unlegierten Stählen, Grauguss, Temperguss, Kupferlegierungen, Neusilber, Graphit, Sintereisen.



**E** Jobber drills  
short series, DIN 338 RN

**Range of application:**  
Premium quality twist drills for drilling steel and steel castings, alloy and plain carbon, grey iron castings, copper-alloys, nickel-silver, graphite and similar materials.




DAMPFANGELASSEN<sup>1)</sup>  
STEM TEMPERED<sup>2)</sup>  
VAPORIZZATA<sup>2)</sup>


**I** Punta elicoidali  
serie corta, DIN 338 RN

**Impiego:**  
Foratura di acciai legati, non legati, ghisa, ghisa grigia, ghisa malleabile, leghe rame, alpaca, grafite, acciai sinterizzati.



DAMPFANGELASSEN<sup>1)</sup>  
STEM TEMPERED<sup>2)</sup>  
VAPORIZZATA<sup>2)</sup>

Ø <sub>h8</sub> mm	l1 mm	l2 mm	Code 601 Art.-Nr.	
0,20	19	2,5	00 601000201 00	10
0,30	19	3	00 601000301 00	10
0,35	19	4	00 601000351 00	10
0,40	20	5	00 601000401 00	10
0,50	22	6	00 601000501 00	10
0,55	24	7	00 601000551 00	10
0,60	24	7	00 601000601 00	10
0,65	26	8	00 601000651 00	10
0,70	28	9	00 601000701 00	10
0,75	28	9	00 601000751 00	10
0,80	30	10	00 601000801 00	10
0,85	30	10	00 601000851 00	10
0,90	32	11	00 601000901 00	10
0,95	32	11	00 601000951 00	10
1,00	34	12	00 601001001 00	10
1,05	34	12	00 601001051 00	10
1,10	36	14	00 601001101 00	10
1,15	36	14	00 601001151 00	10
1,20	38	16	00 601001201 00	10
1,25	38	16	00 601001251 00	10
1,30	38	16	00 601001301 00	10
1,35	40	18	00 601001351 00	10
1,40	40	18	00 601001401 00	10
1,45	40	18	00 601001451 00	10

Ø <sub>h8</sub> mm	l1 mm	l2 mm	Code 601 Art.-Nr.	
1,50	40	18	00 601001501 00	10
1,55	43	20	00 601001551 00	10
1,60	43	20	00 601001601 00	10
1,65	43	20	00 601001651 00	10
1,70	43	20	00 601001701 00	10
1,75	46	22	00 601001751 00	10
1,80	46	22	00 601001801 00	10
1,85	46	22	00 601001851 00	10
1,90	46	22	00 601001901 00	10
1,95	49	24	00 601001951 00	10
2,00	49	24	00 601002001 00	10
2,05	49	24	00 601002051 00	10
2,10	49	24	00 601002101 00	10
2,15	53	27	00 601002151 00	10
2,20	53	27	00 601002201 00	10
2,25	53	27	00 601002251 00	10
2,30	53	27	00 601002301 00	10
2,35	53	27	00 601002351 00	10
2,40	57	30	00 601002401 00	10
2,45	57	30	00 601002451 00	10
2,50	57	30	00 601002501 00	10
2,55	57	30	00 601002551 00	10
2,60	57	30	00 601002601 00	10
2,65	57	30	00 601002651 00	10

<sup>1)</sup> ≥ Ø 4,0 mm / <sup>2)</sup> ≥ Ø 1,0 mm