






PUNTE HSS

3XD		
ø D (mm)	1-14	
		
	P	M
	N	K
pag 202		

3XD		
ø D (mm)	1-14	
		
	P	K
pag 204		

5XD		
ø D (mm)	1-14	
		
	P	M
	N	K
pag 206		

5XD		
ø D (mm)	1-14	
		
	P	K
pag 208		

XDRILL 3xD



HSCO

3xD



P

M

K

N

PUNTE IN HSS

HSS DRILLS

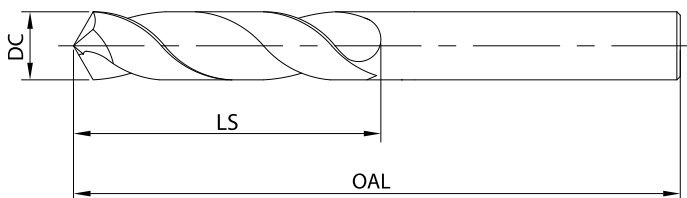
Punte **3xD** in **HSCO** per lavorazioni su un'ampia gamma di materiali, rivestimento TiN.

-Angolo punta SIG=118°

-Tolleranza h8

-DIN 1897

3xD HSS drills for a wide range of materials, coating TiN.



Punte 3xD tolleranza h8/Drill 3xD h8

DC/DMM	OAL	LS	CODICE CODE
Ø 1	26	6	G-T HS-N D1.00-3D TN
Ø 1,1	28	7	G-T HS-N D1.10-3D TN
Ø 1,2	30	8	G-T HS-N D1.20-3D TN
Ø 1,3	30	8	G-T HS-N D1.30-3D TN
Ø 1,4	32	9	G-T HS-N D1.40-3D TN
Ø 1,5	32	9	G-T HS-N D1.50-3D TN
Ø 1,59	34	10	G-T HS-N D1.59-3D TN
Ø 1,6	34	10	G-T HS-N D1.60-3D TN
Ø 1,7	34	10	G-T HS-N D1.70-3D TN
Ø 1,8	36	11	G-T HS-N D1.80-3D TN
Ø 1,9	36	11	G-T HS-N D1.90-3D TN
Ø 1,98	38	12	G-T HS-N D1.98-3D TN
Ø 2	38	12	G-T HS-N D2.00-3D TN
Ø 2,1	38	12	G-T HS-N D2.10-3D TN
Ø 2,2	40	13	G-T HS-N D2.20-3D TN
Ø 2,3	40	13	G-T HS-N D2.30-3D TN
Ø 2,38	43	14	G-T HS-N D2.38-3D TN
Ø 2,4	43	14	G-T HS-N D2.40-3D TN
Ø 2,5	43	14	G-T HS-N D2.50-3D TN
Ø 2,6	43	14	G-T HS-N D2.60-3D TN
Ø 2,7	46	16	G-T HS-N D2.70-3D TN
Ø 2,78	46	16	G-T HS-N D2.78-3D TN
Ø 2,8	46	16	G-T HS-N D2.80-3D TN
Ø 2,9	46	16	G-T HS-N D2.90-3D TN
Ø 3	46	16	G-T HS-N D3.00-3D TN
Ø 3,1	49	18	G-T HS-N D3.10-3D TN
Ø 3,17	49	18	G-T HS-N D3.17-3D TN
Ø 3,2	49	18	G-T HS-N D3.20-3D TN
Ø 3,3	49	18	G-T HS-N D3.30-3D TN
Ø 3,4	52	20	G-T HS-N D3.40-3D TN
Ø 3,5	52	20	G-T HS-N D3.50-3D TN
Ø 3,57	52	20	G-T HS-N D3.57-3D TN
Ø 3,6	52	20	G-T HS-N D3.60-3D TN
Ø 3,7	52	20	G-T HS-N D3.70-3D TN
Ø 3,8	55	22	G-T HS-N D3.80-3D TN
Ø 3,9	55	22	G-T HS-N D3.90-3D TN

DC/DMM	OAL	LS	CODICE CODE
Ø 3,97	55	22	G-T HS-N D3.97-3D TN
Ø 4	55	22	G-T HS-N D4.00-3D TN
Ø 4,1	55	22	G-T HS-N D4.10-3D TN
Ø 4,2	55	22	G-T HS-N D4.20-3D TN
Ø 4,3	58	24	G-T HS-N D4.30-3D TN
Ø 4,37	58	24	G-T HS-N D4.37-3D TN
Ø 4,4	58	24	G-T HS-N D4.40-3D TN
Ø 4,5	58	24	G-T HS-N D4.50-3D TN
Ø 4,6	58	24	G-T HS-N D4.60-3D TN
Ø 4,7	58	24	G-T HS-N D4.70-3D TN
Ø 4,76	62	26	G-T HS-N D4.76-3D TN
Ø 4,8	62	26	G-T HS-N D4.80-3D TN
Ø 4,9	62	26	G-T HS-N D4.90-3D TN
Ø 5	62	26	G-T HS-N D5.00-3D TN
Ø 5,1	62	26	G-T HS-N D5.10-3D TN
Ø 5,16	62	26	G-T HS-N D5.16-3D TN
Ø 5,2	62	26	G-T HS-N D5.20-3D TN
Ø 5,3	62	26	G-T HS-N D5.30-3D TN
Ø 5,4	66	28	G-T HS-N D5.40-3D TN
Ø 5,5	66	28	G-T HS-N D5.50-3D TN
Ø 5,56	66	28	G-T HS-N D5.56-3D TN
Ø 5,6	66	28	G-T HS-N D5.60-3D TN
Ø 5,7	66	28	G-T HS-N D5.70-3D TN
Ø 5,8	66	28	G-T HS-N D5.80-3D TN
Ø 5,9	66	28	G-T HS-N D5.90-3D TN
Ø 5,95	66	28	G-T HS-N D5.95-3D TN
Ø 6	66	28	G-T HS-N D6.00-3D TN
Ø 6,1	70	31	G-T HS-N D6.10-3D TN
Ø 6,2	70	31	G-T HS-N D6.20-3D TN
Ø 6,3	70	31	G-T HS-N D6.30-3D TN
Ø 6,35	70	31	G-T HS-N D6.35-3D TN
Ø 6,4	70	31	G-T HS-N D6.40-3D TN
Ø 6,5	70	31	G-T HS-N D6.50-3D TN
Ø 6,6	70	31	G-T HS-N D6.60-3D TN
Ø 6,7	70	31	G-T HS-N D6.70-3D TN
Ø 6,75	74	34	G-T HS-N D6.75-3D TN

Verificare disponibilità/Check availability

DC/DMM OAL LS	CODICE CODE	
Ø 6,8 74 34	G-T HS-N D6.80-3D TN	
Ø 6,9 74 34	G-T HS-N D6.90-3D TN	
Ø 7 74 34	G-T HS-N D7.00-3D TN	
Ø 7,1 74 34	G-T HS-N D7.10-3D TN	
Ø 7,14 74 34	G-T HS-N D7.14-3D TN	
Ø 7,2 74 34	G-T HS-N D7.20-3D TN	
Ø 7,3 74 34	G-T HS-N D7.30-3D TN	
Ø 7,4 74 34	G-T HS-N D7.40-3D TN	
Ø 7,5 74 34	G-T HS-N D7.50-3D TN	
Ø 7,54 79 37	G-T HS-N D7.54-3D TN	
Ø 7,6 79 37	G-T HS-N D7.60-3D TN	
Ø 7,7 79 37	G-T HS-N D7.70-3D TN	
Ø 7,8 79 37	G-T HS-N D7.80-3D TN	
Ø 7,9 79 37	G-T HS-N D7.90-3D TN	
Ø 7,94 79 37	G-T HS-N D7.94-3D TN	
Ø 8 79 37	G-T HS-N D8.00-3D TN	
Ø 8,1 79 37	G-T HS-N D8.10-3D TN	
Ø 8,2 79 37	G-T HS-N D8.20-3D TN	
Ø 8,3 79 37	G-T HS-N D8.30-3D TN	
Ø 8,33 79 37	G-T HS-N D8.33-3D TN	
Ø 8,4 79 37	G-T HS-N D8.40-3D TN	
Ø 8,5 79 37	G-T HS-N D8.50-3D TN	
Ø 8,6 84 40	G-T HS-N D8.60-3D TN	
Ø 8,7 84 40	G-T HS-N D8.70-3D TN	
Ø 8,73 84 40	G-T HS-N D8.73-3D TN	
Ø 8,8 84 40	G-T HS-N D8.80-3D TN	
Ø 8,9 84 40	G-T HS-N D8.90-3D TN	
Ø 9 84 40	G-T HS-N D9.00-3D TN	
Ø 9,1 84 40	G-T HS-N D9.10-3D TN	
Ø 9,13 84 40	G-T HS-N D9.13-3D TN	

DC/DMM OAL LS	CODICE CODE	
Ø 9,2 84 40	G-T HS-N D9.20-3D TN	
Ø 9,3 84 40	G-T HS-N D9.30-3D TN	
Ø 9,4 84 40	G-T HS-N D9.40-3D TN	
Ø 9,5 84 40	G-T HS-N D9.50-3D TN	
Ø 9,52 89 43	G-T HS-N D9.52-3D TN	
Ø 9,6 89 43	G-T HS-N D9.60-3D TN	
Ø 9,7 89 43	G-T HS-N D9.70-3D TN	
Ø 9,8 89 43	G-T HS-N D9.80-3D TN	
Ø 9,9 89 43	G-T HS-N D9.90-3D TN	
Ø 9,92 89 43	G-T HS-N D9.92-3D TN	
Ø 10 89 43	G-T HS-N D10.00-3D TN	
Ø 10,1 89 43	G-T HS-N D10.10-3D TN	
Ø 10,2 89 43	G-T HS-N D10.20-3D TN	
Ø 10,3 89 43	G-T HS-N D10.30-3D TN	
Ø 10,32 89 43	G-T HS-N D10.32-3D TN	
Ø 10,4 89 43	G-T HS-N D10.40-3D TN	
Ø 10,5 89 43	G-T HS-N D10.50-3D TN	
Ø 10,72 95 47	G-T HS-N D10.72-3D TN	
Ø 11 95 47	G-T HS-N D11.00-3D TN	
Ø 11,11 95 47	G-T HS-N D11.11-3D TN	
Ø 11,5 95 47	G-T HS-N D11.50-3D TN	
Ø 11,91 102 51	G-T HS-N D11.91-3D TN	
Ø 12 102 51	G-T HS-N D12.00-3D TN	
Ø 12,3 102 51	G-T HS-N D12.30-3D TN	
Ø 12,5 102 51	G-T HS-N D12.50-3D TN	
Ø 12,7 102 51	G-T HS-N D12.70-3D TN	
Ø 13 102 51	G-T HS-N D13.00-3D TN	
Ø 13,5 107 54	G-T HS-N D13.50-3D TN	
Ø 14 107 54	G-T HS-N D14.00-3D TN	

Verificare disponibilità/Check availability

INFORMAZIONI TECNICHE/TECHNICAL INFORMATION

Dati di taglio/Cutting data

MATERIALE MATERIAL	3xD HSS		Lavorazione consigliata
	Vc [mm/min]	fn = % x D	
Acciaio basso legato/Low alloy steel	30-40	0,025xD	●
Acciaio medio legato/Medium alloy steel	20-30	0,015xD	●
Acciaio legato, per stampi-utensili/Alloy steel for dies-tools	10-15	0,010xD	○
Inox/ss	10-15	0,015xD	○
Ghisa/Cast iron	25-35	0,025xD	●
Materiali non ferrosi, alluminio/Aluminium	50-70	0,020xD	●

ESEMPIO

Punta Ø10 3xD, acciaio medio legato: Vc=20m/min
 fn=0,015x10=0,15 mm/giro
 n=650 giri/min Vf=100 mm/min

EXAMPLE

Drilling tools Ø10 3xD, medium alloy steel: Vt=20 m/min
 fn=0,015x10=0,15 mm/giro
 n= 650 giri/min Vf=100 mm/min

XDRILL 3xD

PUNTE IN HSS-E-PM HSS-E-PM DRILLS



HSS-E-PM

3xD

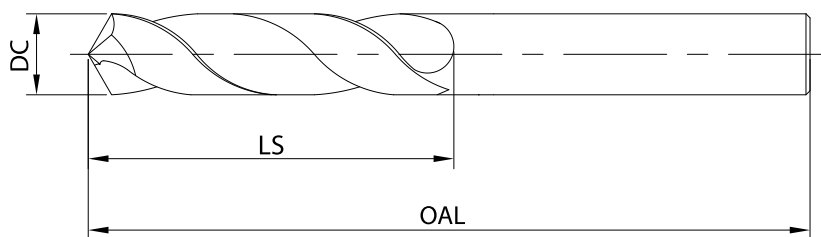


P

K

Punte 3xD in HSS-E-PM, rivestimento TiN.
-Angolo punta SIG=130°
-Tolleranza h8
-DIN 1897

3xD HSS-E-PM, coating TiN.



Punte 3xD tolleranza h8/Drill 3xD h8

DC/DMM	OAL	LS	CODICE CODE	DC/DMM	OAL	LS	CODICE CODE
Ø 1	26	6	G-T PM-N D1.00-3D TN	Ø 3,97	55	22	G-T PM-N D3.97-3D TN
Ø 1,1	28	7	G-T PM-N D1.10-3D TN	Ø 4	55	22	G-T PM-N D4.00-3D TN
Ø 1,2	30	8	G-T PM-N D1.20-3D TN	Ø 4,1	55	22	G-T PM-N D4.10-3D TN
Ø 1,3	30	8	G-T PM-N D1.30-3D TN	Ø 4,2	55	22	G-T PM-N D4.20-3D TN
Ø 1,4	32	9	G-T PM-N D1.40-3D TN	Ø 4,3	58	24	G-T PM-N D4.30-3D TN
Ø 1,5	32	9	G-T PM-N D1.50-3D TN	Ø 4,37	58	24	G-T PM-N D4.37-3D TN
Ø 1,59	34	10	G-T PM-N D1.59-3D TN	Ø 4,4	58	24	G-T PM-N D4.40-3D TN
Ø 1,6	34	10	G-T PM-N D1.60-3D TN	Ø 4,5	58	24	G-T PM-N D4.50-3D TN
Ø 1,7	34	10	G-T PM-N D1.70-3D TN	Ø 4,6	58	24	G-T PM-N D4.60-3D TN
Ø 1,8	36	11	G-T PM-N D1.80-3D TN	Ø 4,7	58	24	G-T PM-N D4.70-3D TN
Ø 1,9	36	11	G-T PM-N D1.90-3D TN	Ø 4,76	62	26	G-T PM-N D4.76-3D TN
Ø 1,98	38	12	G-T PM-N D1.98-3D TN	Ø 4,8	62	26	G-T PM-N D4.80-3D TN
Ø 2	38	12	G-T PM-N D2.00-3D TN	Ø 4,9	62	26	G-T PM-N D4.90-3D TN
Ø 2,1	38	12	G-T PM-N D2.10-3D TN	Ø 5	62	26	G-T PM-N D5.00-3D TN
Ø 2,2	40	13	G-T PM-N D2.20-3D TN	Ø 5,1	62	26	G-T PM-N D5.10-3D TN
Ø 2,3	40	13	G-T PM-N D2.30-3D TN	Ø 5,16	62	26	G-T PM-N D5.16-3D TN
Ø 2,38	43	14	G-T PM-N D2.38-3D TN	Ø 5,2	62	26	G-T PM-N D5.20-3D TN
Ø 2,4	43	14	G-T PM-N D2.40-3D TN	Ø 5,3	62	26	G-T PM-N D5.30-3D TN
Ø 2,5	43	14	G-T PM-N D2.50-3D TN	Ø 5,4	66	28	G-T PM-N D5.40-3D TN
Ø 2,6	43	14	G-T PM-N D2.60-3D TN	Ø 5,5	66	28	G-T PM-N D5.50-3D TN
Ø 2,7	46	16	G-T PM-N D2.70-3D TN	Ø 5,56	66	28	G-T PM-N D5.56-3D TN
Ø 2,78	46	16	G-T PM-N D2.78-3D TN	Ø 5,6	66	28	G-T PM-N D5.60-3D TN
Ø 2,8	46	16	G-T PM-N D2.80-3D TN	Ø 5,7	66	28	G-T PM-N D5.70-3D TN
Ø 2,9	46	16	G-T PM-N D2.90-3D TN	Ø 5,8	66	28	G-T PM-N D5.80-3D TN
Ø 3	46	16	G-T PM-N D3.00-3D TN	Ø 5,9	66	28	G-T PM-N D5.90-3D TN
Ø 3,1	49	18	G-T PM-N D3.10-3D TN	Ø 5,95	66	28	G-T PM-N D5.95-3D TN
Ø 3,17	49	18	G-T PM-N D3.17-3D TN	Ø 6	66	28	G-T PM-N D6.00-3D TN
Ø 3,2	49	18	G-T PM-N D3.20-3D TN	Ø 6,1	70	31	G-T PM-N D6.10-3D TN
Ø 3,3	49	18	G-T PM-N D3.30-3D TN	Ø 6,2	70	31	G-T PM-N D6.20-3D TN
Ø 3,4	52	20	G-T PM-N D3.40-3D TN	Ø 6,3	70	31	G-T PM-N D6.30-3D TN
Ø 3,5	52	20	G-T PM-N D3.50-3D TN	Ø 6,35	70	31	G-T PM-N D6.35-3D TN
Ø 3,57	52	20	G-T PM-N D3.57-3D TN	Ø 6,4	70	31	G-T PM-N D6.40-3D TN
Ø 3,6	52	20	G-T PM-N D3.60-3D TN	Ø 6,5	70	31	G-T PM-N D6.50-3D TN
Ø 3,7	52	20	G-T PM-N D3.70-3D TN	Ø 6,6	70	31	G-T PM-N D6.60-3D TN
Ø 3,8	55	22	G-T PM-N D3.80-3D TN	Ø 6,7	70	31	G-T PM-N D6.70-3D TN
Ø 3,9	55	22	G-T PM-N D3.90-3D TN	Ø 6,75	74	34	G-T PM-N D6.75-3D TN

Verificare disponibilità/Check availability

DC/DMM	OAL	LS	CODICE CODE
Ø 6,8	74	34	G-T PM-N D6.80-3D TN
Ø 6,9	74	34	G-T PM-N D6.90-3D TN
Ø 7	74	34	G-T PM-N D7.00-3D TN
Ø 7,1	74	34	G-T PM-N D7.10-3D TN
Ø 7,14	74	34	G-T PM-N D7.14-3D TN
Ø 7,2	74	34	G-T PM-N D7.20-3D TN
Ø 7,3	74	34	G-T PM-N D7.30-3D TN
Ø 7,4	74	34	G-T PM-N D7.40-3D TN
Ø 7,5	74	34	G-T PM-N D7.50-3D TN
Ø 7,54	79	37	G-T PM-N D7.54-3D TN
Ø 7,6	79	37	G-T PM-N D7.60-3D TN
Ø 7,7	79	37	G-T PM-N D7.70-3D TN
Ø 7,8	79	37	G-T PM-N D7.80-3D TN
Ø 7,9	79	37	G-T PM-N D7.90-3D TN
Ø 7,94	79	37	G-T PM-N D7.94-3D TN
Ø 8	79	37	G-T PM-N D8.00-3D TN
Ø 8,1	79	37	G-T PM-N D8.10-3D TN
Ø 8,2	79	37	G-T PM-N D8.20-3D TN
Ø 8,3	79	37	G-T PM-N D8.30-3D TN
Ø 8,33	79	37	G-T PM-N D8.33-3D TN
Ø 8,4	79	37	G-T PM-N D8.40-3D TN
Ø 8,5	79	37	G-T PM-N D8.50-3D TN
Ø 8,73	84	40	G-T PM-N D8.73-3D TN
Ø 8,8	84	40	G-T PM-N D8.80-3D TN

DC/DMM	OAL	LS	CODICE CODE
Ø 9	84	40	G-T PM-N D9.00-3D TN
Ø 9,13	84	40	G-T PM-N D9.13-3D TN
Ø 9,3	84	40	G-T PM-N D9.30-3D TN
Ø 9,5	84	40	G-T PM-N D9.50-3D TN
Ø 9,52	84	40	G-T PM-N D9.52-3D TN
Ø 9,8	89	43	G-T PM-N D9.80-3D TN
Ø 9,92	89	43	G-T PM-N D9.92-3D TN
Ø 10	89	43	G-T PM-N D10.00-3D TN
Ø 10,2	89	43	G-T PM-N D10.20-3D TN
Ø 10,32	89	43	G-T PM-N D10.32-3D TN
Ø 10,5	89	43	G-T PM-N D10.50-3D TN
Ø 10,72	89	43	G-T PM-N D10.72-3D TN
Ø 11	95	47	G-T PM-N D11.00-3D TN
Ø 11,11	95	47	G-T PM-N D11.11-3D TN
Ø 11,5	95	47	G-T PM-N D11.50-3D TN
Ø 11,91	102	51	G-T PM-N D11.91-3D TN
Ø 12	102	51	G-T PM-N D12.00-3D TN
Ø 12,3	102	51	G-T PM-N D12.30-3D TN
Ø 12,5	102	51	G-T PM-N D12.50-3D TN
Ø 12,7	102	51	G-T PM-N D12.70-3D TN
Ø 13	102	51	G-T PM-N D13.00-3D TN
Ø 13,5	107	54	G-T PM-N D13.50-3D TN
Ø 14	107	54	G-T PM-N D14.00-3D TN

Verificare disponibilità/Check availability

INFORMAZIONI TECNICHE/TECHNICAL INFORMATION

Dati di taglio/Cutting data

MATERIALE MATERIAL	3xD HSS		Lavorazione consigliata
	Vc [mm/min]	fn = % x D	
Acciaio basso legato/Low alloy steel	35-45	0,025xD	●
Acciaio medio legato/Medium alloy steel	25-35	0,015xD	●
Acciaio legato, per stampi-utensili/Alloy steel for dies-tools	15-20	0,010xD	○
Inox/ss	15-20	0,015xD	○
Duplex, leghe titanio, inconel/Duplex steel, titanium alloys, Inconel	10-15	0,008xD	○
Ghisa/Cast iron	45-55	0,025xD	●
Materiali non ferrosi, alluminio/Aluminium	55-85	0,020xD	○

ESEMPIO

Punta Ø10 3xD, acciaio medio legato: Vc=25m/min
fn=0,015x10=0,15 mm/giro
n=800giri/min Vf=120 mm/min

EXAMPLE

Drilling tools Ø10 3xD, medium alloy steel: Vc=25 m/min
fn=0,015x10=0,15 mm/giro
n= 800 giri/min Vf=120 mm/min

XDRILL 5xD



HSCO

5xD



P

M

K

N

PUNTE IN HSCO

HSCO DRILLS

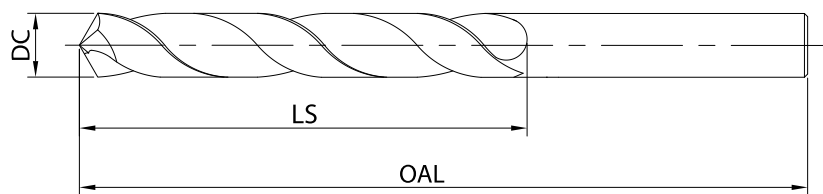
Punte **5xD HSCO** per lavorazioni su un'ampia gamma di materiali, rivestimento TiN.

-Angolo punta SIG=118°

-Tolleranza h8

-DIN 338

5xD HSCO drills for a wide range of materials, coating TiN.



Punte 5xD tolleranza h8/Drill 5xD h8

DC/DMM	OAL	LS	CODICE CODE
Ø 1	34	12	G-T HS-N D1.00-5D TN
Ø 1,1	36	14	G-T HS-N D1.10-5D TN
Ø 1,2	38	16	G-T HS-N D1.20-5D TN
Ø 1,3	38	16	G-T HS-N D1.30-5D TN
Ø 1,4	40	18	G-T HS-N D1.40-5D TN
Ø 1,5	40	18	G-T HS-N D1.50-5D TN
Ø 1,59	40	18	G-T HS-N D1.59-5D TN
Ø 1,6	43	20	G-T HS-N D1.60-5D TN
Ø 1,7	43	20	G-T HS-N D1.70-5D TN
Ø 1,8	46	22	G-T HS-N D1.80-5D TN
Ø 1,9	46	22	G-T HS-N D1.90-5D TN
Ø 1,98	46	22	G-T HS-N D1.98-5D TN
Ø 2	49	24	G-T HS-N D2.00-5D TN
Ø 2,1	49	24	G-T HS-N D2.10-5D TN
Ø 2,2	53	27	G-T HS-N D2.20-5D TN
Ø 2,3	53	27	G-T HS-N D2.30-5D TN
Ø 2,38	57	30	G-T HS-N D2.38-5D TN
Ø 2,4	57	30	G-T HS-N D2.40-5D TN
Ø 2,5	57	30	G-T HS-N D2.50-5D TN
Ø 2,6	57	30	G-T HS-N D2.60-5D TN
Ø 2,7	61	33	G-T HS-N D2.70-5D TN
Ø 2,78	61	33	G-T HS-N D2.78-5D TN
Ø 2,8	61	33	G-T HS-N D2.80-5D TN
Ø 2,9	61	33	G-T HS-N D2.90-5D TN
Ø 3	61	33	G-T HS-N D3.00-5D TN
Ø 3,1	65	36	G-T HS-N D3.10-5D TN
Ø 3,17	65	36	G-T HS-N D3.17-5D TN
Ø 3,2	65	36	G-T HS-N D3.20-5D TN
Ø 3,3	65	36	G-T HS-N D3.30-5D TN
Ø 3,4	70	39	G-T HS-N D3.40-5D TN
Ø 3,5	70	39	G-T HS-N D3.50-5D TN
Ø 3,57	70	39	G-T HS-N D3.57-5D TN
Ø 3,6	70	39	G-T HS-N D3.60-5D TN
Ø 3,7	70	39	G-T HS-N D3.70-5D TN
Ø 3,8	75	43	G-T HS-N D3.80-5D TN
Ø 3,9	75	43	G-T HS-N D3.90-5D TN

DC/DMM	OAL	LS	CODICE CODE
Ø 3,97	75	43	G-T HS-N D3.97-5D TN
Ø 4	75	43	G-T HS-N D4.00-5D TN
Ø 4,1	75	43	G-T HS-N D4.10-5D TN
Ø 4,2	75	43	G-T HS-N D4.20-5D TN
Ø 4,3	80	47	G-T HS-N D4.30-5D TN
Ø 4,37	80	47	G-T HS-N D4.37-5D TN
Ø 4,4	80	47	G-T HS-N D4.40-5D TN
Ø 4,5	80	47	G-T HS-N D4.50-5D TN
Ø 4,6	80	47	G-T HS-N D4.60-5D TN
Ø 4,7	80	47	G-T HS-N D4.70-5D TN
Ø 4,76	86	52	G-T HS-N D4.76-5D TN
Ø 4,8	86	52	G-T HS-N D4.80-5D TN
Ø 4,9	86	52	G-T HS-N D4.90-5D TN
Ø 5	86	52	G-T HS-N D5.00-5D TN
Ø 5,1	86	52	G-T HS-N D5.10-5D TN
Ø 5,16	86	52	G-T HS-N D5.16-5D TN
Ø 5,2	86	52	G-T HS-N D5.20-5D TN
Ø 5,3	86	52	G-T HS-N D5.30-5D TN
Ø 5,4	93	57	G-T HS-N D5.40-5D TN
Ø 5,5	93	57	G-T HS-N D5.50-5D TN
Ø 5,56	93	57	G-T HS-N D5.56-5D TN
Ø 5,6	93	57	G-T HS-N D5.60-5D TN
Ø 5,7	93	57	G-T HS-N D5.70-5D TN
Ø 5,8	93	57	G-T HS-N D5.80-5D TN
Ø 5,9	93	57	G-T HS-N D5.90-5D TN
Ø 5,95	93	57	G-T HS-N D5.95-5D TN
Ø 6	93	57	G-T HS-N D6.00-5D TN
Ø 6,1	101	63	G-T HS-N D6.10-5D TN
Ø 6,2	101	63	G-T HS-N D6.20-5D TN
Ø 6,3	101	63	G-T HS-N D6.30-5D TN
Ø 6,35	101	63	G-T HS-N D6.35-5D TN
Ø 6,4	101	63	G-T HS-N D6.40-5D TN
Ø 6,5	101	63	G-T HS-N D6.50-5D TN
Ø 6,6	101	63	G-T HS-N D6.60-5D TN
Ø 6,7	101	63	G-T HS-N D6.70-5D TN
Ø 6,75	101	63	G-T HS-N D6.75-5D TN

Verificare disponibilità/Check availability

DC/DMM	OAL	LS	CODICE CODE
Ø 6,8	109	69	G-T HS-N D6.80-5D TN
Ø 6,9	109	69	G-T HS-N D6.90-5D TN
Ø 7	109	69	G-T HS-N D7.00-5D TN
Ø 7,1	109	69	G-T HS-N D7.10-5D TN
Ø 7,14	109	69	G-T HS-N D7.14-5D TN
Ø 7,2	109	69	G-T HS-N D7.20-5D TN
Ø 7,3	109	69	G-T HS-N D7.30-5D TN
Ø 7,4	109	69	G-T HS-N D7.40-5D TN
Ø 7,5	109	69	G-T HS-N D7.50-5D TN
Ø 7,54	117	75	G-T HS-N D7.54-5D TN
Ø 7,6	117	75	G-T HS-N D7.60-5D TN
Ø 7,7	117	75	G-T HS-N D7.70-5D TN
Ø 7,8	117	75	G-T HS-N D7.80-5D TN
Ø 7,9	117	75	G-T HS-N D7.90-5D TN
Ø 7,94	117	75	G-T HS-N D7.94-5D TN
Ø 8	117	75	G-T HS-N D8.00-5D TN
Ø 8,1	117	75	G-T HS-N D8.10-5D TN
Ø 8,2	117	75	G-T HS-N D8.20-5D TN
Ø 8,3	117	75	G-T HS-N D8.30-5D TN
Ø 8,33	117	75	G-T HS-N D8.33-5D TN
Ø 8,4	117	75	G-T HS-N D8.40-5D TN
Ø 8,5	117	75	G-T HS-N D8.50-5D TN
Ø 8,6	125	81	G-T HS-N D8.60-5D TN
Ø 8,7	125	81	G-T HS-N D8.70-5D TN
Ø 8,73	125	81	G-T HS-N D8.73-5D TN
Ø 8,8	125	81	G-T HS-N D8.80-5D TN
Ø 8,9	125	81	G-T HS-N D8.90-5D TN
Ø 9	125	81	G-T HS-N D9.00-5D TN
Ø 9,1	125	81	G-T HS-N D9.10-5D TN
Ø 9,13	125	81	G-T HS-N D9.13-5D TN

DC/DMM	OAL	LS	CODICE CODE
Ø 9,2	125	81	G-T HS-N D9.20-5D TN
Ø 9,3	125	81	G-T HS-N D9.30-5D TN
Ø 9,4	125	81	G-T HS-N D9.40-5D TN
Ø 9,5	125	81	G-T HS-N D9.50-5D TN
Ø 9,52	125	81	G-T HS-N D9.52-5D TN
Ø 9,6	133	87	G-T HS-N D9.60-5D TN
Ø 9,7	133	87	G-T HS-N D9.70-5D TN
Ø 9,8	133	87	G-T HS-N D9.80-5D TN
Ø 9,9	133	87	G-T HS-N D9.90-5D TN
Ø 9,92	133	87	G-T HS-N D9.92-5D TN
Ø 10	133	87	G-T HS-N D10.00-5D TN
Ø 10,1	133	87	G-T HS-N D10.10-5D TN
Ø 10,2	133	87	G-T HS-N D10.20-5D TN
Ø 10,3	133	87	G-T HS-N D10.30-5D TN
Ø 10,32	133	87	G-T HS-N D10.32-5D TN
Ø 10,4	133	87	G-T HS-N D10.40-5D TN
Ø 10,5	133	87	G-T HS-N D10.50-5D TN
Ø 10,72	133	87	G-T HS-N D10.72-5D TN
Ø 11	142	94	G-T HS-N D11.00-5D TN
Ø 11,11	142	94	G-T HS-N D11.11-5D TN
Ø 11,5	142	94	G-T HS-N D11.50-5D TN
Ø 11,91	142	94	G-T HS-N D11.91-5D TN
Ø 12	151	101	G-T HS-N D12.00-5D TN
Ø 12,3	151	101	G-T HS-N D12.30-5D TN
Ø 12,5	151	101	G-T HS-N D12.50-5D TN
Ø 12,7	151	101	G-T HS-N D12.70-5D TN
Ø 13	151	101	G-T HS-N D13.00-5D TN
Ø 13,5	160	108	G-T HS-N D13.50-5D TN
Ø 14	160	108	G-T HS-N D14.00-5D TN

Verificare disponibilità/Check availability

INFORMAZIONI TECNICHE/TECHNICAL INFORMATION

Dati di taglio/Cutting data

MATERIALE MATERIAL	5xD HSS		Lavorazione consigliata
	Vc [mm/min]	fn = % x D	
Acciaio basso legato/Low alloy steel	30-40	0,025xD	●
Acciaio medio legato/Medium alloy steel	20-30	0,015xD	●
Acciaio legato, per stampi-utensili/Alloy steel for dies-tools	10-15	0,010xD	○
Inox/ss	10-15	0,015xD	●
Ghisa/Cast iron	25-35	0,025xD	●
Materiali non ferrosi, alluminio/Aluminium	50-70	0,020xD	●

ESEMPIO

Punta Ø10 5xD, acciaio medio legato: Vc=20m/min
 fn=0,015x10=0,15 mm/giro
 n=650 giri/min Vf=100 mm/min

EXAMPLE

Drilling tools Ø10 5xD, medium alloy steel: Vt=20 m/min
 fn=0,015x10=0,15 mm/giro
 n= 650 giri/min Vf=100 mm/min

XDRILL 5xD



HSS-E-PM

5xD



P

K

PUNTE IN HSS-E-PM SINTERIZZATE

HSS-E-PM DRILLS SINTERED

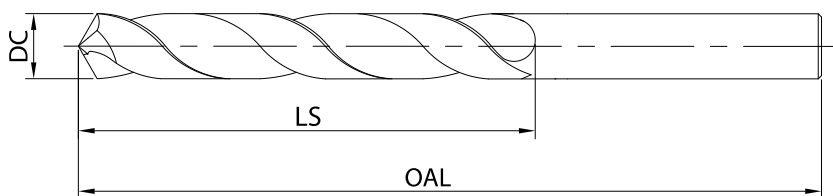
Punte 5xD in HSS-E-PM, rivestimento TiN.

-Angolo punta SIG=118°

-Tolleranza h8

-DIN 338

5xD HSS-E-PM, coating TiN.



Punte 5xD tolleranza h8/Drill 5xD h8

DC/DMM	OAL	LS	CODICE CODE	DC/DMM	OAL	LS	CODICE CODE
Ø 1	34	12	G-T PM-N D1.00-5D TN	Ø 3,97	75	43	G-T PM-N D3.97-5D TN
Ø 1,1	36	14	G-T PM-N D1.10-5D TN	Ø 4	75	43	G-T PM-N D4.00-5D TN
Ø 1,2	38	16	G-T PM-N D1.20-5D TN	Ø 4,1	75	43	G-T PM-N D4.10-5D TN
Ø 1,3	38	16	G-T PM-N D1.30-5D TN	Ø 4,2	75	43	G-T PM-N D4.20-5D TN
Ø 1,4	40	18	G-T PM-N D1.40-5D TN	Ø 4,3	80	47	G-T PM-N D4.30-5D TN
Ø 1,5	40	18	G-T PM-N D1.50-5D TN	Ø 4,37	80	47	G-T PM-N D4.37-5D TN
Ø 1,59	40	18	G-T PM-N D1.59-5D TN	Ø 4,4	80	47	G-T PM-N D4.40-5D TN
Ø 1,6	43	20	G-T PM-N D1.60-5D TN	Ø 4,5	80	47	G-T PM-N D4.50-5D TN
Ø 1,7	43	20	G-T PM-N D1.70-5D TN	Ø 4,6	80	47	G-T PM-N D4.60-5D TN
Ø 1,8	46	22	G-T PM-N D1.80-5D TN	Ø 4,7	80	47	G-T PM-N D4.70-5D TN
Ø 1,9	46	22	G-T PM-N D1.90-5D TN	Ø 4,76	86	52	G-T PM-N D4.76-5D TN
Ø 1,98	46	22	G-T PM-N D1.98-5D TN	Ø 4,8	86	52	G-T PM-N D4.80-5D TN
Ø 2	49	24	G-T PM-N D2.00-5D TN	Ø 4,9	86	52	G-T PM-N D4.90-5D TN
Ø 2,1	49	24	G-T PM-N D2.10-5D TN	Ø 5	86	52	G-T PM-N D5.00-5D TN
Ø 2,2	53	27	G-T PM-N D2.20-5D TN	Ø 5,1	86	52	G-T PM-N D5.10-5D TN
Ø 2,3	53	27	G-T PM-N D2.30-5D TN	Ø 5,16	86	52	G-T PM-N D5.16-5D TN
Ø 2,38	57	30	G-T PM-N D2.38-5D TN	Ø 5,2	86	52	G-T PM-N D5.20-5D TN
Ø 2,4	57	30	G-T PM-N D2.40-5D TN	Ø 5,3	86	52	G-T PM-N D5.30-5D TN
Ø 2,5	57	30	G-T PM-N D2.50-5D TN	Ø 5,4	93	57	G-T PM-N D5.40-5D TN
Ø 2,6	57	30	G-T PM-N D2.60-5D TN	Ø 5,5	93	57	G-T PM-N D5.50-5D TN
Ø 2,7	61	33	G-T PM-N D2.70-5D TN	Ø 5,56	93	57	G-T PM-N D5.56-5D TN
Ø 2,78	61	33	G-T PM-N D2.78-5D TN	Ø 5,6	93	57	G-T PM-N D5.60-5D TN
Ø 2,8	61	33	G-T PM-N D2.80-5D TN	Ø 5,7	93	57	G-T PM-N D5.70-5D TN
Ø 2,9	61	33	G-T PM-N D2.90-5D TN	Ø 5,8	93	57	G-T PM-N D5.80-5D TN
Ø 3	61	33	G-T PM-N D3.00-5D TN	Ø 5,9	93	57	G-T PM-N D5.90-5D TN
Ø 3,1	65	36	G-T PM-N D3.10-5D TN	Ø 5,95	93	57	G-T PM-N D5.95-5D TN
Ø 3,17	65	36	G-T PM-N D3.17-5D TN	Ø 6	93	57	G-T PM-N D6.00-5D TN
Ø 3,2	65	36	G-T PM-N D3.20-5D TN	Ø 6,1	101	63	G-T PM-N D6.10-5D TN
Ø 3,3	65	36	G-T PM-N D3.30-5D TN	Ø 6,2	101	63	G-T PM-N D6.20-5D TN
Ø 3,4	70	39	G-T PM-N D3.40-5D TN	Ø 6,3	101	63	G-T PM-N D6.30-5D TN
Ø 3,5	70	39	G-T PM-N D3.50-5D TN	Ø 6,35	101	63	G-T PM-N D6.35-5D TN
Ø 3,57	70	39	G-T PM-N D3.57-5D TN	Ø 6,4	101	63	G-T PM-N D6.40-5D TN
Ø 3,6	70	39	G-T PM-N D3.60-5D TN	Ø 6,5	101	63	G-T PM-N D6.50-5D TN
Ø 3,7	70	39	G-T PM-N D3.70-5D TN	Ø 6,6	101	63	G-T PM-N D6.60-5D TN
Ø 3,8	75	43	G-T PM-N D3.80-5D TN	Ø 6,7	101	63	G-T PM-N D6.70-5D TN
Ø 3,9	75	43	G-T PM-N D3.90-5D TN	Ø 6,75	109	69	G-T PM-N D6.75-5D TN

Verificare disponibilità/Check availability

DC/DMM OAL LS	CODICE CODE
Ø 6,8 109 69	G-T PM-N D6.80-5D TN
Ø 6,9 109 69	G-T PM-N D6.90-5D TN
Ø 7 109 69	G-T PM-N D7.00-5D TN
Ø 7,1 109 69	G-T PM-N D7.10-5D TN
Ø 7,14 109 69	G-T PM-N D7.14-5D TN
Ø 7,2 109 69	G-T PM-N D7.20-5D TN
Ø 7,3 109 69	G-T PM-N D7.30-5D TN
Ø 7,4 109 69	G-T PM-N D7.40-5D TN
Ø 7,5 109 69	G-T PM-N D7.50-5D TN
Ø 7,54 117 75	G-T PM-N D7.54-5D TN
Ø 7,6 117 75	G-T PM-N D7.60-5D TN
Ø 7,7 117 75	G-T PM-N D7.70-5D TN
Ø 7,8 117 75	G-T PM-N D7.80-5D TN
Ø 7,9 117 75	G-T PM-N D7.90-5D TN
Ø 7,94 117 75	G-T PM-N D7.94-5D TN
Ø 8 117 75	G-T PM-N D8.00-5D TN
Ø 8,1 117 75	G-T PM-N D8.10-5D TN
Ø 8,2 117 75	G-T PM-N D8.20-5D TN
Ø 8,3 117 75	G-T PM-N D8.30-5D TN
Ø 8,33 117 75	G-T PM-N D8.33-5D TN
Ø 8,4 117 75	G-T PM-N D8.40-5D TN
Ø 8,5 117 75	G-T PM-N D8.50-5D TN
Ø 8,73 125 81	G-T PM-N D8.73-5D TN
Ø 8,8 125 81	G-T PM-N D8.80-5D TN

DC/DMM OAL LS	CODICE CODE
Ø 9 125 81	G-T PM-N D9.00-5D TN
Ø 9,13 125 81	G-T PM-N D9.13-5D TN
Ø 9,3 125 81	G-T PM-N D9.30-5D TN
Ø 9,5 125 81	G-T PM-N D9.50-5D TN
Ø 9,52 125 81	G-T PM-N D9.52-5D TN
Ø 9,8 133 87	G-T PM-N D9.80-5D TN
Ø 9,92 133 87	G-T PM-N D9.92-5D TN
Ø 10 133 87	G-T PM-N D10.00-5D TN
Ø 10,2 133 87	G-T PM-N D10.20-5D TN
Ø 10,32 133 87	G-T PM-N D10.32-5D TN
Ø 10,5 133 87	G-T PM-N D10.50-5D TN
Ø 10,72 142 94	G-T PM-N D10.72-5D TN
Ø 11 142 94	G-T PM-N D11.00-5D TN
Ø 11,11 142 94	G-T PM-N D11.11-5D TN
Ø 11,5 142 94	G-T PM-N D11.50-5D TN
Ø 11,91 151 94	G-T PM-N D11.91-5D TN
Ø 12 151 94	G-T PM-N D12.00-5D TN
Ø 12,3 151 94	G-T PM-N D12.30-5D TN
Ø 12,5 151 94	G-T PM-N D12.50-5D TN
Ø 12,7 151 94	G-T PM-N D12.70-5D TN
Ø 13 151 94	G-T PM-N D13.00-5D TN
Ø 13,5 160 108	G-T PM-N D13.50-5D TN
Ø 14 160 108	G-T PM-N D14.00-5D TN

Verificare disponibilità/Check availability

INFORMAZIONI TECNICHE/TECHNICAL INFORMATION

Dati di taglio/Cutting data

MATERIALE MATERIAL	5xD HSS		Lavorazione consigliata
	Vc [mm/min]	fn = % x D	
Acciaio basso legato/Low alloy steel	35-45	0,025xD	●
Acciaio medio legato/Medium alloy steel	25-35	0,015xD	●
Acciaio legato, per stampi-utensili/Alloy steel for dies-tools	15-20	0,010xD	○
Inox/ss	15-20	0,015xD	○
Duplex, leghe titanio, inconel/Duplex steel, titanium alloys, Inconel	10-15	0,008xD	○
Ghisa/Cast iron	45-55	0,025xD	●
Materiali non ferrosi, alluminio/Aluminium	55-85	0,020xD	○

ESEMPIO

Punta Ø10 5xD, acciaio medio legato: Vc=25m/min
 fn=0,015x10=0,15 mm/giro
 n=800 giri/min Vf=120 mm/min

EXAMPLE

Drilling tools Ø10 5xD, medium alloy steel: Vt=25 m/min
 fn=0,015x10=0,15 mm/giro
 n= 800 giri/min Vf=120 mm/min