

SELECT ONE

**A WORLDWIDE
COMPANY
TOOLS**

2016



**MADE IN
GERMANY**



Siamo una società che vanta una esperienza di venticinque anni nel campo degli utensili meccanici da precisione. Gli inserti a fissaggio meccanico standard e speciali furono i primi prodotti commercializzati, poi vennero gli utensili integrali da taglio.

Oggi la nostra società è in grado di selezionare una specializzata gamma di utensili e metterli a disposizione del cliente.

Identificare un prodotto e valutarne la qualità, testando le prestazioni attraverso prove su moderne macchine utensili, è ciò che la nostra esperienza ci permette di fare.

We are a company with twenty five years of experience in the branch of mechanical precision tools. The indexable inserts standard and special were our first marketed products, then came the whole cutting tools program.

Today our company is able to select a range of specialized cutting tools, and make them available to the customer.

Identify a product, evaluate the quality, testing performances with tests on modern machines tools, it is what that our experience allows us to do.

The background features a complex pattern of thin, light gray lines that curve and intersect to form a grid-like structure. This pattern is set against a white background that transitions into a light gray gradient. In the bottom-left corner, there is a solid green triangle pointing upwards and to the right. The entire composition is framed by a dark green border.

FORNITURE AL TRADE INDUSTRIALE.

Da anni, la tradizione legata all'innovazione dei processi
informatici e di servizio ci accompagna sul mercato.

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Punte in Metallo Duro

**Solid Carbide
Drills**

9140 Punta in Metallo Duro Micrograna

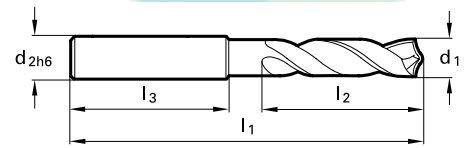
Solid Carbide Drills

Ricoperta T-Red / Profondità foro fino a 3xD / Non forata / Toll. m7

Nano T-Red coated / Drilling depth 3xD / Without oil feed / Tolerance m7



d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
3.00	6.00	62.00	20.00	36.00	25,10
3.10	6.00	62.00	20.00	36.00	25,10
3.17	6.00	62.00	20.00	36.00	25,10
3.20	6.00	62.00	20.00	36.00	25,10
3.25	6.00	62.00	20.00	36.00	25,10
3.30	6.00	62.00	20.00	36.00	25,10
3.40	6.00	62.00	20.00	36.00	25,10
3.50	6.00	62.00	20.00	36.00	25,10
3.57	6.00	62.00	20.00	36.00	25,10
3.60	6.00	62.00	20.00	36.00	25,10
3.70	6.00	62.00	20.00	36.00	25,10
3.80	6.00	66.00	24.00	36.00	25,10
3.90	6.00	66.00	24.00	36.00	25,10
3.97	6.00	66.00	24.00	36.00	25,10
4.00	6.00	66.00	24.00	36.00	25,10
4.10	6.00	66.00	24.00	36.00	25,10
4.20	6.00	66.00	24.00	36.00	25,10
4.30	6.00	66.00	24.00	36.00	25,10
4.37	6.00	66.00	24.00	36.00	25,10
4.40	6.00	66.00	24.00	36.00	25,10
4.50	6.00	66.00	24.00	36.00	25,10
4.60	6.00	66.00	24.00	36.00	25,10
4.65	6.00	66.00	24.00	36.00	25,10
4.70	6.00	66.00	24.00	36.00	25,10
4.76	6.00	66.00	28.00	36.00	25,10
4.80	6.00	66.00	28.00	36.00	25,10
4.90	6.00	66.00	28.00	36.00	25,10
5.00	6.00	66.00	28.00	36.00	25,10
5.10	6.00	66.00	28.00	36.00	25,10
5.16	6.00	66.00	28.00	36.00	25,10
5.20	6.00	66.00	28.00	36.00	25,10
5.30	6.00	66.00	28.00	36.00	25,10
5.40	6.00	66.00	28.00	36.00	25,10
5.50	6.00	66.00	28.00	36.00	25,10
5.55	6.00	66.00	28.00	36.00	25,10
5.56	6.00	66.00	28.00	36.00	25,10
5.60	6.00	66.00	28.00	36.00	25,10
5.70	6.00	66.00	28.00	36.00	25,10
5.80	6.00	66.00	28.00	36.00	25,10
5.90	6.00	66.00	28.00	36.00	25,10
5.95	6.00	66.00	28.00	36.00	25,10
6.00	6.00	66.00	28.00	36.00	25,10
6.10	8.00	79.00	34.00	36.00	25,10
6.20	8.00	79.00	34.00	36.00	25,10
6.30	8.00	79.00	34.00	36.00	25,10
6.35	8.00	79.00	34.00	36.00	25,10
6.40	8.00	79.00	34.00	36.00	25,10
6.50	8.00	79.00	34.00	36.00	25,10
6.60	8.00	79.00	34.00	36.00	25,10
6.70	8.00	79.00	34.00	36.00	25,10
6.75	8.00	79.00	34.00	36.00	25,10

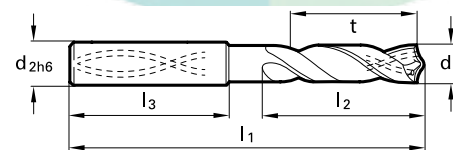


d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
6.80	8.00	79.00	34.00	36.00	25,10
6.90	8.00	79.00	34.00	36.00	25,10
7.00	8.00	79.00	34.00	36.00	25,10
7.10	8.00	79.00	41.00	36.00	25,10
7.14	8.00	79.00	41.00	36.00	25,10
7.20	8.00	79.00	41.00	36.00	25,10
7.30	8.00	79.00	41.00	36.00	25,10
7.40	8.00	79.00	41.00	36.00	25,10
7.50	8.00	79.00	41.00	36.00	25,10
7.54	8.00	79.00	41.00	36.00	25,10
7.60	8.00	79.00	41.00	36.00	25,10
7.70	8.00	79.00	41.00	36.00	25,10
7.80	8.00	79.00	41.00	36.00	25,10
7.90	8.00	79.00	41.00	36.00	25,10
7.94	8.00	79.00	41.00	36.00	25,10
8.00	8.00	79.00	41.00	36.00	25,10
8.10	10.00	89.00	47.00	40.00	28,10
8.20	10.00	89.00	47.00	40.00	28,10
8.30	10.00	89.00	47.00	40.00	28,10
8.33	10.00	89.00	47.00	40.00	28,10
8.40	10.00	89.00	47.00	40.00	28,10
8.50	10.00	89.00	47.00	40.00	28,10
8.60	10.00	89.00	47.00	40.00	28,10
8.70	10.00	89.00	47.00	40.00	28,10
8.73	10.00	89.00	47.00	40.00	28,10
8.80	10.00	89.00	47.00	40.00	28,10
8.90	10.00	89.00	47.00	40.00	28,10
9.00	10.00	89.00	47.00	40.00	28,10
9.10	10.00	89.00	47.00	40.00	28,10
9.13	10.00	89.00	47.00	40.00	28,10
9.20	10.00	89.00	47.00	40.00	28,10
9.25	10.00	89.00	47.00	40.00	28,10
9.30	10.00	89.00	47.00	40.00	28,10
9.40	10.00	89.00	47.00	40.00	28,10
9.50	10.00	89.00	47.00	40.00	28,10
9.60	10.00	89.00	47.00	40.00	28,10
9.70	10.00	89.00	47.00	40.00	28,10
9.80	10.00	89.00	47.00	40.00	28,10
9.90	10.00	89.00	47.00	40.00	28,10
9.92	10.00	89.00	47.00	40.00	28,10
10.00	10.00	89.00	47.00	40.00	28,10
10.10	12.00	102.00	55.00	45.00	41,90
10.20	12.00	102.00	55.00	45.00	41,90
10.30	12.00	102.00	55.00	45.00	41,90
10.40	12.00	102.00	55.00	45.00	41,90
10.50	12.00	102.00	55.00	45.00	41,90
10.60	12.00	102.00	55.00	45.00	41,90
10.70	12.00	102.00	55.00	45.00	41,90
10.80	12.00	102.00	55.00	45.00	41,90
10.90	12.00	102.00	55.00	45.00	41,90
11.00	12.00	102.00	55.00	45.00	41,90
11.10	12.00	102.00	55.00	45.00	41,90
11.20	12.00	102.00	55.00	45.00	41,90
11.30	12.00	102.00	55.00	45.00	41,90
11.40	12.00	102.00	55.00	45.00	41,90
11.50	12.00	102.00	55.00	45.00	41,90
11.60	12.00	102.00	55.00	45.00	41,90

9100 Punta in Metallo Duro Micrograna

Solid Carbide Drills

Ricoperta T-Red / Profondità foro fino a 3xD / Con fori di refrigerazione / Toll. m7
 Nano T-Red coated / Drilling depth 3xD / With oil feed / Tolerance m7



$$t_{\max} = l_2 - 1,5 \times d_1$$

d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
3.00	6.00	62.00	20.00	36.00	31,70
3.10	6.00	62.00	20.00	36.00	31,70
3.17	6.00	62.00	20.00	36.00	31,70
3.20	6.00	62.00	20.00	36.00	31,70
3.25	6.00	62.00	20.00	36.00	31,70
3.30	6.00	62.00	20.00	36.00	31,70
3.40	6.00	62.00	20.00	36.00	31,70
3.50	6.00	62.00	20.00	36.00	31,70
3.57	6.00	62.00	20.00	36.00	31,70
3.60	6.00	62.00	20.00	36.00	31,70
3.70	6.00	62.00	20.00	36.00	31,70
3.80	6.00	66.00	24.00	36.00	31,70
3.90	6.00	66.00	24.00	36.00	31,70
3.97	6.00	66.00	24.00	36.00	31,70
4.00	6.00	66.00	24.00	36.00	34,30
4.10	6.00	66.00	24.00	36.00	34,30
4.20	6.00	66.00	24.00	36.00	34,30
4.30	6.00	66.00	24.00	36.00	34,30
4.37	6.00	66.00	24.00	36.00	34,30
4.40	6.00	66.00	24.00	36.00	34,30
4.50	6.00	66.00	24.00	36.00	34,30
4.60	6.00	66.00	24.00	36.00	34,30
4.65	6.00	66.00	24.00	36.00	34,30
4.70	6.00	66.00	24.00	36.00	34,30
4.76	6.00	66.00	28.00	36.00	34,30
4.80	6.00	66.00	28.00	36.00	34,30
4.90	6.00	66.00	28.00	36.00	34,30
5.00	6.00	66.00	28.00	36.00	34,30
5.10	6.00	66.00	28.00	36.00	34,30
5.16	6.00	66.00	28.00	36.00	34,30
5.20	6.00	66.00	28.00	36.00	34,30
5.30	6.00	66.00	28.00	36.00	34,30
5.40	6.00	66.00	28.00	36.00	34,30
5.50	6.00	66.00	28.00	36.00	34,30
5.55	6.00	66.00	28.00	36.00	34,30
5.56	6.00	66.00	28.00	36.00	34,30
5.60	6.00	66.00	28.00	36.00	34,30
5.70	6.00	66.00	28.00	36.00	34,30
5.80	6.00	66.00	28.00	36.00	34,30
5.90	6.00	66.00	28.00	36.00	34,30
5.95	6.00	66.00	28.00	36.00	34,30
6.00	6.00	66.00	28.00	36.00	34,30
6.10	8.00	79.00	34.00	36.00	46,60
6.20	8.00	79.00	34.00	36.00	46,60
6.30	8.00	79.00	34.00	36.00	46,60
6.35	8.00	79.00	34.00	36.00	46,60
6.40	8.00	79.00	34.00	36.00	46,60
6.50	8.00	79.00	34.00	36.00	46,60
6.60	8.00	79.00	34.00	36.00	46,60
6.70	8.00	79.00	34.00	36.00	46,60
6.75	8.00	79.00	34.00	36.00	46,60

d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
6.80	8.00	79.00	34.00	36.00	46,60
6.90	8.00	79.00	34.00	36.00	46,60
7.00	8.00	79.00	34.00	36.00	46,60
7.10	8.00	79.00	41.00	36.00	46,60
7.14	8.00	79.00	41.00	36.00	46,60
7.20	8.00	79.00	41.00	36.00	46,60
7.30	8.00	79.00	41.00	36.00	46,60
7.40	8.00	79.00	41.00	36.00	46,60
7.50	8.00	79.00	41.00	36.00	46,60
7.54	8.00	79.00	41.00	36.00	46,60
7.60	8.00	79.00	41.00	36.00	46,60
7.70	8.00	79.00	41.00	36.00	46,60
7.80	8.00	79.00	41.00	36.00	46,60
7.90	8.00	79.00	41.00	36.00	46,60
7.94	8.00	79.00	41.00	36.00	46,60
8.00	8.00	79.00	41.00	36.00	46,60
8.10	10.00	89.00	47.00	40.00	52,10
8.20	10.00	89.00	47.00	40.00	52,10
8.30	10.00	89.00	47.00	40.00	52,10
8.33	10.00	89.00	47.00	40.00	52,10
8.40	10.00	89.00	47.00	40.00	52,10
8.50	10.00	89.00	47.00	40.00	52,10
8.60	10.00	89.00	47.00	40.00	52,10
8.70	10.00	89.00	47.00	40.00	52,10
8.73	10.00	89.00	47.00	40.00	52,10
8.80	10.00	89.00	47.00	40.00	52,10
8.90	10.00	89.00	47.00	40.00	52,10
9.00	10.00	89.00	47.00	40.00	52,10
9.10	10.00	89.00	47.00	40.00	52,10
9.13	10.00	89.00	47.00	40.00	52,10
9.20	10.00	89.00	47.00	40.00	52,10
9.25	10.00	89.00	47.00	40.00	52,10
9.30	10.00	89.00	47.00	40.00	52,10
9.40	10.00	89.00	47.00	40.00	52,10
9.50	10.00	89.00	47.00	40.00	52,10
9.60	10.00	89.00	47.00	40.00	52,10
9.70	10.00	89.00	47.00	40.00	52,10
9.80	10.00	89.00	47.00	40.00	52,10
9.90	10.00	89.00	47.00	40.00	52,10
9.92	10.00	89.00	47.00	40.00	52,10
10.00	10.00	89.00	47.00	40.00	52,10
10.10	12.00	102.00	55.00	45.00	74,80
10.20	12.00	102.00	55.00	45.00	74,80
10.30	12.00	102.00	55.00	45.00	74,80
10.32	12.00	102.00	55.00	45.00	74,80
10.40	12.00	102.00	55.00	45.00	74,80
10.50	12.00	102.00	55.00	45.00	74,80
10.60	12.00	102.00	55.00	45.00	74,80
10.70	12.00	102.00	55.00	45.00	74,80
10.80	12.00	102.00	55.00	45.00	74,80
10.90	12.00	102.00	55.00	45.00	74,80
11.00	12.00	102.00	55.00	45.00	74,80
11.10	12.00	102.00	55.00	45.00	74,80
11.11	12.00	102.00	55.00	45.00	74,80
11.20	12.00	102.00	55.00	45.00	74,80
11.30	12.00	102.00	55.00	45.00	74,80
11.40	12.00	102.00	55.00	45.00	74,80

d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
11.50	12.00	102.00	55.00	45.00	74,80
11.60	12.00	102.00	55.00	45.00	74,80
11.70	12.00	102.00	55.00	45.00	74,80
11.80	12.00	102.00	55.00	45.00	74,80
11.90	12.00	102.00	55.00	45.00	74,80
11.91	12.00	102.00	55.00	45.00	74,80
12.00	12.00	102.00	55.00	45.00	74,80
12.10	14.00	107.00	60.00	45.00	104,40
12.20	14.00	107.00	60.00	45.00	104,40
12.30	14.00	107.00	60.00	45.00	104,40
12.40	14.00	107.00	60.00	45.00	104,40
12.50	14.00	107.00	60.00	45.00	104,40
12.60	14.00	107.00	60.00	45.00	104,40
12.70	14.00	107.00	60.00	45.00	104,40
12.80	14.00	107.00	60.00	45.00	104,40
12.90	14.00	107.00	60.00	45.00	104,40
13.00	14.00	107.00	60.00	45.00	104,40
13.10	14.00	107.00	60.00	45.00	104,40
13.20	14.00	107.00	60.00	45.00	104,40
13.30	14.00	107.00	60.00	45.00	104,40
13.40	14.00	107.00	60.00	45.00	104,40
13.50	14.00	107.00	60.00	45.00	104,40
13.60	14.00	107.00	60.00	45.00	104,40
13.70	14.00	107.00	60.00	45.00	104,40
13.80	14.00	107.00	60.00	45.00	104,40
13.90	14.00	107.00	60.00	45.00	104,40
14.00	14.00	107.00	60.00	45.00	104,40
14.10	16.00	115.00	65.00	48.00	127,50
14.20	16.00	115.00	65.00	48.00	127,50
14.29	16.00	115.00	65.00	48.00	127,50
14.30	16.00	115.00	65.00	48.00	127,50
14.40	16.00	115.00	65.00	48.00	127,50
14.50	16.00	115.00	65.00	48.00	127,50
14.60	16.00	115.00	65.00	48.00	127,50
14.70	16.00	115.00	65.00	48.00	127,50
14.80	16.00	115.00	65.00	48.00	127,50
14.90	16.00	115.00	65.00	48.00	127,50
15.00	16.00	115.00	65.00	48.00	127,50
15.50	16.00	115.00	65.00	48.00	127,50
15.70	16.00	115.00	65.00	48.00	127,50
16.00	16.00	115.00	65.00	48.00	127,50
16.50	18.00	123.00	73.00	48.00	204,90
17.00	18.00	123.00	73.00	48.00	204,90
17.50	18.00	123.00	73.00	48.00	204,90
18.00	18.00	123.00	73.00	48.00	204,90
18.50	20.00	131.00	79.00	50.00	223,80
19.00	20.00	131.00	79.00	50.00	223,80
19.50	20.00	131.00	79.00	50.00	223,80
20.00	20.00	131.00	79.00	50.00	223,80

9150 Punta in Metallo Duro Micrograna

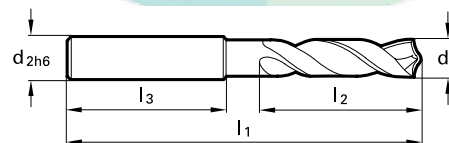
Solid Carbide Drills

Ricoperta T-Red / Profondità foro fino a 5xD / Non forata / Toll. m7

Nano T-Red coated / Drilling depth 5xD / Without oil feed / Tolerance m7



d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
3.00	6.00	66.00	28.00	36.00	28,70
3.10	6.00	66.00	28.00	36.00	28,70
3.17	6.00	66.00	28.00	36.00	28,70
3.20	6.00	66.00	28.00	36.00	28,70
3.25	6.00	66.00	28.00	36.00	28,70
3.30	6.00	66.00	28.00	36.00	28,70
3.40	6.00	66.00	28.00	36.00	28,70
3.50	6.00	66.00	28.00	36.00	28,70
3.57	6.00	66.00	28.00	36.00	28,70
3.60	6.00	66.00	28.00	36.00	28,70
3.70	6.00	66.00	28.00	36.00	28,70
3.80	6.00	74.00	36.00	36.00	28,70
3.90	6.00	74.00	36.00	36.00	28,70
3.97	6.00	74.00	36.00	36.00	28,70
4.00	6.00	74.00	36.00	36.00	28,70
4.10	6.00	74.00	36.00	36.00	28,70
4.20	6.00	74.00	36.00	36.00	28,70
4.30	6.00	74.00	36.00	36.00	28,70
4.37	6.00	74.00	36.00	36.00	28,70
4.40	6.00	74.00	36.00	36.00	28,70
4.50	6.00	74.00	36.00	36.00	28,70
4.60	6.00	74.00	36.00	36.00	28,70
4.65	6.00	74.00	36.00	36.00	28,70
4.70	6.00	74.00	36.00	36.00	28,70
4.76	6.00	82.00	44.00	36.00	28,70
4.80	6.00	82.00	44.00	36.00	28,70
4.90	6.00	82.00	44.00	36.00	28,70
5.00	6.00	82.00	44.00	36.00	28,70
5.10	6.00	82.00	44.00	36.00	28,70
5.16	6.00	82.00	44.00	36.00	28,70
5.20	6.00	82.00	44.00	36.00	28,70
5.30	6.00	82.00	44.00	36.00	28,70
5.40	6.00	82.00	44.00	36.00	28,70
5.50	6.00	82.00	44.00	36.00	28,70
5.55	6.00	82.00	44.00	36.00	28,70
5.56	6.00	82.00	44.00	36.00	28,70
5.60	6.00	82.00	44.00	36.00	28,70
5.70	6.00	82.00	44.00	36.00	28,70
5.80	6.00	82.00	44.00	36.00	28,70
5.90	6.00	82.00	44.00	36.00	28,70
5.95	6.00	82.00	44.00	36.00	28,70
6.00	6.00	82.00	44.00	36.00	28,70
6.10	8.00	91.00	53.00	36.00	29,10
6.20	8.00	91.00	53.00	36.00	29,10
6.30	8.00	91.00	53.00	36.00	29,10
6.35	8.00	91.00	53.00	36.00	29,10
6.40	8.00	91.00	53.00	36.00	29,10
6.50	8.00	91.00	53.00	36.00	29,10
6.60	8.00	91.00	53.00	36.00	29,10
6.70	8.00	91.00	53.00	36.00	29,10
6.75	8.00	91.00	53.00	36.00	29,10



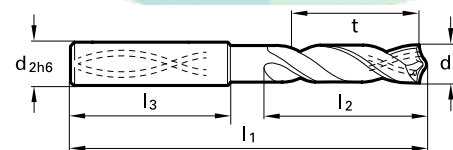
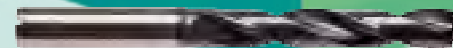
d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
6.80	8.00	91.00	53.00	36.00	29,10
6.90	8.00	91.00	53.00	36.00	29,10
7.00	8.00	91.00	53.00	36.00	29,10
7.10	8.00	91.00	53.00	36.00	29,10
7.14	8.00	91.00	53.00	36.00	29,10
7.20	8.00	91.00	53.00	36.00	29,10
7.30	8.00	91.00	53.00	36.00	29,10
7.40	8.00	91.00	53.00	36.00	29,10
7.50	8.00	91.00	53.00	36.00	29,10
7.54	8.00	91.00	53.00	36.00	29,10
7.60	8.00	91.00	53.00	36.00	29,10
7.70	8.00	91.00	53.00	36.00	29,10
7.80	8.00	91.00	53.00	36.00	29,10
7.90	8.00	91.00	53.00	36.00	29,10
7.94	8.00	91.00	53.00	36.00	29,10
8.00	8.00	91.00	53.00	36.00	29,10
8.10	10.00	103.00	61.00	40.00	32,30
8.20	10.00	103.00	61.00	40.00	32,30
8.30	10.00	103.00	61.00	40.00	32,30
8.33	10.00	103.00	61.00	40.00	32,30
8.40	10.00	103.00	61.00	40.00	32,30
8.50	10.00	103.00	61.00	40.00	32,30
8.60	10.00	103.00	61.00	40.00	32,30
8.70	10.00	103.00	61.00	40.00	32,30
8.73	10.00	103.00	61.00	40.00	32,30
8.80	10.00	103.00	61.00	40.00	32,30
8.90	10.00	103.00	61.00	40.00	32,30
9.00	10.00	103.00	61.00	40.00	32,30
9.10	10.00	103.00	61.00	40.00	32,30
9.13	10.00	103.00	61.00	40.00	32,30
9.20	10.00	103.00	61.00	40.00	32,30
9.25	10.00	103.00	61.00	40.00	32,30
9.30	10.00	103.00	61.00	40.00	32,30
9.40	10.00	103.00	61.00	40.00	32,30
9.50	10.00	103.00	61.00	40.00	32,30
9.60	10.00	103.00	61.00	40.00	32,30
9.70	10.00	103.00	61.00	40.00	32,30
9.80	10.00	103.00	61.00	40.00	32,30
9.90	10.00	103.00	61.00	40.00	32,30
10.00	10.00	103.00	61.00	40.00	32,30
10.10	12.00	118.00	71.00	45.00	48,20
10.20	12.00	118.00	71.00	45.00	48,20
10.30	12.00	118.00	71.00	45.00	48,20
10.40	12.00	118.00	71.00	45.00	48,20
10.50	12.00	118.00	71.00	45.00	48,20
10.60	12.00	118.00	71.00	45.00	48,20
10.70	12.00	118.00	71.00	45.00	48,20
10.80	12.00	118.00	71.00	45.00	48,20
10.90	12.00	118.00	71.00	45.00	48,20
11.00	12.00	118.00	71.00	45.00	48,20
11.10	12.00	118.00	71.00	45.00	48,20
11.11	12.00	118.00	71.00	45.00	48,20
11.20	12.00	118.00	71.00	45.00	48,20
11.30	12.00	118.00	71.00	45.00	48,20
11.40	12.00	118.00	71.00	45.00	48,20
11.50	12.00	118.00	71.00	45.00	48,20
11.60	12.00	118.00	71.00	45.00	48,20

d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
11.70	12.00	118.00	71.00	45.00	48,20
11.80	12.00	118.00	71.00	45.00	48,20
11.90	12.00	118.00	71.00	45.00	48,20
12.00	12.00	118.00	71.00	45.00	48,20
12.10	14.00	124.00	77.00	45.00	63,50
12.20	14.00	124.00	77.00	45.00	63,50
12.30	14.00	124.00	77.00	45.00	63,50
12.40	14.00	124.00	77.00	45.00	63,50
12.50	14.00	124.00	77.00	45.00	63,50
12.60	14.00	124.00	77.00	45.00	63,50
12.70	14.00	124.00	77.00	45.00	63,50
12.80	14.00	124.00	77.00	45.00	63,50
12.90	14.00	124.00	77.00	45.00	63,50
13.00	14.00	124.00	77.00	45.00	63,50
13.10	14.00	124.00	77.00	45.00	63,50
13.20	14.00	124.00	77.00	45.00	63,50
13.30	14.00	124.00	77.00	45.00	63,50
13.40	14.00	124.00	77.00	45.00	63,50
13.50	14.00	124.00	77.00	45.00	63,50
13.60	14.00	124.00	77.00	45.00	63,50
13.70	14.00	124.00	77.00	45.00	63,50
13.80	14.00	124.00	77.00	45.00	63,50
14.00	14.00	124.00	77.00	45.00	63,50
14.10	16.00	133.00	83.00	48.00	82,30
14.20	16.00	133.00	83.00	48.00	82,30
14.30	16.00	133.00	83.00	48.00	82,30
14.40	16.00	133.00	83.00	48.00	82,30
14.50	16.00	133.00	83.00	48.00	82,30
14.70	16.00	133.00	83.00	48.00	82,30
14.80	16.00	133.00	83.00	48.00	82,30
14.90	16.00	133.00	83.00	48.00	82,30
15.00	16.00	133.00	83.00	48.00	82,30
15.20	16.00	133.00	83.00	48.00	82,30
15.50	16.00	133.00	83.00	48.00	82,30
15.70	16.00	133.00	83.00	48.00	82,30
16.00	16.00	133.00	83.00	48.00	82,30
16.50	18.00	143.00	93.00	48.00	137,00
17.00	18.00	143.00	93.00	48.00	137,00
17.50	18.00	143.00	93.00	48.00	137,00
18.00	18.00	143.00	93.00	48.00	137,00
18.50	20.00	153.00	101.00	50.00	147,50
19.00	20.00	153.00	101.00	50.00	132,10
19.50	20.00	153.00	101.00	50.00	147,50
20.00	20.00	153.00	101.00	50.00	147,50

9110 Punta in Metallo Duro Micrograna

Solid Carbide Drills

Ricoperta T-Red / Profondità foro fino a 5xD / Con fori di refrigerazione / Toll. m7
 Nano T-Red coated / Drilling depth 5xD / With oil feed / Tolerance m7



$$t_{\max} = l_2 - 1,5 \times d_1$$

d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
3.00	6.00	66.00	28.00	36.00	41,00
3.10	6.00	66.00	28.00	36.00	41,00
3.17	6.00	66.00	28.00	36.00	41,00
3.20	6.00	66.00	28.00	36.00	41,00
3.25	6.00	66.00	28.00	36.00	41,00
3.30	6.00	66.00	28.00	36.00	41,00
3.40	6.00	66.00	28.00	36.00	41,00
3.50	6.00	66.00	28.00	36.00	41,00
3.57	6.00	66.00	28.00	36.00	41,00
3.60	6.00	66.00	28.00	36.00	41,00
3.70	6.00	66.00	28.00	36.00	41,00
3.80	6.00	74.00	36.00	36.00	41,00
3.90	6.00	74.00	36.00	36.00	41,00
3.97	6.00	74.00	36.00	36.00	41,00
4.00	6.00	74.00	36.00	36.00	44,00
4.10	6.00	74.00	36.00	36.00	44,00
4.20	6.00	74.00	36.00	36.00	44,00
4.30	6.00	74.00	36.00	36.00	44,00
4.37	6.00	74.00	36.00	36.00	44,00
4.40	6.00	74.00	36.00	36.00	44,00
4.50	6.00	74.00	36.00	36.00	44,00
4.60	6.00	74.00	36.00	36.00	44,00
4.65	6.00	74.00	36.00	36.00	44,00
4.70	6.00	74.00	36.00	36.00	44,00
4.76	6.00	82.00	44.00	36.00	44,00
4.80	6.00	82.00	44.00	36.00	44,00
4.90	6.00	82.00	44.00	36.00	44,00
5.00	6.00	82.00	44.00	36.00	44,00
5.10	6.00	82.00	44.00	36.00	44,00
5.16	6.00	82.00	44.00	36.00	44,00
5.20	6.00	82.00	44.00	36.00	44,00
5.30	6.00	82.00	44.00	36.00	44,00
5.40	6.00	82.00	44.00	36.00	44,00
5.50	6.00	82.00	44.00	36.00	44,00
5.55	6.00	82.00	44.00	36.00	44,00
5.56	6.00	82.00	44.00	36.00	44,00
5.60	6.00	82.00	44.00	36.00	44,00
5.70	6.00	82.00	44.00	36.00	44,00
5.80	6.00	82.00	44.00	36.00	44,00
5.90	6.00	82.00	44.00	36.00	44,00
5.95	6.00	82.00	44.00	36.00	44,00
6.00	6.00	82.00	44.00	36.00	44,00
6.10	8.00	91.00	53.00	36.00	48,70
6.20	8.00	91.00	53.00	36.00	48,70
6.30	8.00	91.00	53.00	36.00	48,70
6.35	8.00	91.00	53.00	36.00	48,70
6.40	8.00	91.00	53.00	36.00	48,70
6.50	8.00	91.00	53.00	36.00	48,70
6.60	8.00	91.00	53.00	36.00	48,70
6.70	8.00	91.00	53.00	36.00	48,70
6.75	8.00	91.00	53.00	36.00	48,70

d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
6.80	8.00	91.00	53.00	36.00	48,70
6.90	8.00	91.00	53.00	36.00	48,70
7.00	8.00	91.00	53.00	36.00	48,70
7.10	8.00	91.00	53.00	36.00	48,70
7.14	8.00	91.00	53.00	36.00	48,70
7.20	8.00	91.00	53.00	36.00	48,70
7.30	8.00	91.00	53.00	36.00	48,70
7.40	8.00	91.00	53.00	36.00	48,70
7.50	8.00	91.00	53.00	36.00	48,70
7.54	8.00	91.00	53.00	36.00	48,70
7.60	8.00	91.00	53.00	36.00	48,70
7.70	8.00	91.00	53.00	36.00	48,70
7.80	8.00	91.00	53.00	36.00	48,70
7.90	8.00	91.00	53.00	36.00	48,70
7.94	8.00	91.00	53.00	36.00	48,70
8.00	8.00	91.00	53.00	36.00	48,70
8.10	10.00	103.00	61.00	40.00	55,80
8.20	10.00	103.00	61.00	40.00	55,80
8.30	10.00	103.00	61.00	40.00	55,80
8.33	10.00	103.00	61.00	40.00	55,80
8.40	10.00	103.00	61.00	40.00	55,80
8.50	10.00	103.00	61.00	40.00	55,80
8.60	10.00	103.00	61.00	40.00	55,80
8.70	10.00	103.00	61.00	40.00	55,80
8.73	10.00	103.00	61.00	40.00	55,80
8.80	10.00	103.00	61.00	40.00	55,80
8.90	10.00	103.00	61.00	40.00	55,80
9.00	10.00	103.00	61.00	40.00	55,80
9.10	10.00	103.00	61.00	40.00	55,80
9.13	10.00	103.00	61.00	40.00	55,80
9.20	10.00	103.00	61.00	40.00	55,80
9.25	10.00	103.00	61.00	40.00	55,80
9.30	10.00	103.00	61.00	40.00	55,80
9.40	10.00	103.00	61.00	40.00	55,80
9.50	10.00	103.00	61.00	40.00	55,80
9.60	10.00	103.00	61.00	40.00	55,80
9.70	10.00	103.00	61.00	40.00	55,80
9.80	10.00	103.00	61.00	40.00	55,80
9.90	10.00	103.00	61.00	40.00	55,80
10.00	10.00	103.00	61.00	40.00	55,80
10.10	12.00	118.00	71.00	45.00	81,40
10.20	12.00	118.00	71.00	45.00	81,40
10.30	12.00	118.00	71.00	45.00	81,40
10.32	12.00	118.00	71.00	45.00	81,40
10.40	12.00	118.00	71.00	45.00	81,40
10.50	12.00	118.00	71.00	45.00	81,40
10.60	12.00	118.00	71.00	45.00	81,40
10.70	12.00	118.00	71.00	45.00	81,40
10.80	12.00	118.00	71.00	45.00	81,40
10.90	12.00	118.00	71.00	45.00	81,40
11.00	12.00	118.00	71.00	45.00	81,40
11.10	12.00	118.00	71.00	45.00	81,40
11.11	12.00	118.00	71.00	45.00	81,40
11.20	12.00	118.00	71.00	45.00	81,40
11.30	12.00	118.00	71.00	45.00	81,40
11.40	12.00	118.00	71.00	45.00	81,40
11.50	12.00	118.00	71.00	45.00	81,40

d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
11.60	12.00	118.00	71.00	45.00	81,40
11.70	12.00	118.00	71.00	45.00	81,40
11.80	12.00	118.00	71.00	45.00	81,40
11.90	12.00	118.00	71.00	45.00	81,40
11.91	12.00	118.00	71.00	45.00	81,40
12.00	12.00	118.00	71.00	45.00	81,40
12.10	14.00	124.00	77.00	45.00	109,60
12.20	14.00	124.00	77.00	45.00	109,60
12.30	14.00	124.00	77.00	45.00	109,60
12.40	14.00	124.00	77.00	45.00	109,60
12.50	14.00	124.00	77.00	45.00	109,60
12.60	14.00	124.00	77.00	45.00	109,60
12.70	14.00	124.00	77.00	45.00	109,60
12.80	14.00	124.00	77.00	45.00	109,60
12.90	14.00	124.00	77.00	45.00	109,60
13.00	14.00	124.00	77.00	45.00	109,60
13.10	14.00	124.00	77.00	45.00	109,60
13.20	14.00	124.00	77.00	45.00	109,60
13.30	14.00	124.00	77.00	45.00	109,60
13.40	14.00	124.00	77.00	45.00	109,60
13.50	14.00	124.00	77.00	45.00	109,60
13.60	14.00	124.00	77.00	45.00	109,60
13.70	14.00	124.00	77.00	45.00	109,60
13.80	14.00	124.00	77.00	45.00	109,60
13.90	14.00	124.00	77.00	45.00	109,60
14.00	14.00	124.00	77.00	45.00	109,60
14.10	16.00	133.00	83.00	48.00	135,20
14.20	16.00	133.00	83.00	48.00	135,20
14.29	16.00	133.00	83.00	48.00	135,20
14.30	16.00	133.00	83.00	48.00	135,20
14.40	16.00	133.00	83.00	48.00	135,20
14.50	16.00	133.00	83.00	48.00	135,20
14.60	16.00	133.00	83.00	48.00	135,20
14.70	16.00	133.00	83.00	48.00	135,20
14.80	16.00	133.00	83.00	48.00	135,20
14.90	16.00	133.00	83.00	48.00	135,20
15.00	16.00	133.00	83.00	48.00	135,20
15.10	16.00	133.00	83.00	48.00	135,20
15.20	16.00	133.00	83.00	48.00	135,20
15.50	16.00	133.00	83.00	48.00	135,20
15.70	16.00	133.00	83.00	48.00	135,20
16.00	16.00	133.00	83.00	48.00	135,20
16.50	18.00	143.00	93.00	48.00	216,70
17.00	18.00	143.00	93.00	48.00	216,70
17.50	18.00	143.00	93.00	48.00	216,70
18.00	18.00	143.00	93.00	48.00	216,70
18.50	20.00	153.00	101.00	50.00	235,60
19.00	20.00	153.00	101.00	50.00	235,60
19.50	20.00	153.00	101.00	50.00	235,60
20.00	20.00	153.00	101.00	50.00	235,60

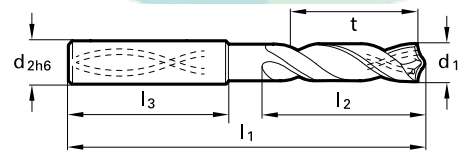
9120 Punta in Metallo Duro Micrograna

Solid Carbide Drills

Ricoperta T-Red / Profondità foro fino a 7xD / Con fori di refrigerazione / Toll. m7
 Nano T-Red coated / Drilling depth 7xD / With oil feed / Tolerance m7



d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
3.00	6.00	70.00	30.00	36.00	90,50
3.10	6.00	70.00	30.00	36.00	90,50
3.17	6.00	70.00	30.00	36.00	90,50
3.20	6.00	70.00	30.00	36.00	90,50
3.25	6.00	70.00	30.00	36.00	90,50
3.30	6.00	70.00	30.00	36.00	90,50
3.40	6.00	75.00	35.50	36.00	90,50
3.50	6.00	75.00	35.50	36.00	90,50
3.57	6.00	75.00	35.50	36.00	90,50
3.60	6.00	75.00	35.50	36.00	90,50
3.70	6.00	75.00	35.50	36.00	90,50
3.80	6.00	75.00	37.50	36.00	90,50
3.90	6.00	75.00	37.50	36.00	90,50
4.00	6.00	75.00	37.50	36.00	90,50
4.10	6.00	75.00	37.50	36.00	90,50
4.20	6.00	75.00	37.50	36.00	90,50
4.30	6.00	85.00	45.00	36.00	90,50
4.37	6.00	85.00	45.00	36.00	90,50
4.40	6.00	85.00	45.00	36.00	90,50
4.50	6.00	85.00	45.00	36.00	90,50
4.60	6.00	85.00	45.00	36.00	90,50
4.65	6.00	85.00	45.00	36.00	90,50
4.70	6.00	85.00	45.00	36.00	90,50
4.76	6.00	90.00	50.00	36.00	90,50
4.80	6.00	90.00	50.00	36.00	90,50
4.90	6.00	90.00	50.00	36.00	90,50
5.00	6.00	90.00	50.00	36.00	90,50
5.10	6.00	90.00	50.00	36.00	90,50
5.16	6.00	90.00	50.00	36.00	90,50
5.20	6.00	90.00	50.00	36.00	90,50
5.30	6.00	90.00	50.00	36.00	90,50
5.40	6.00	97.00	57.00	36.00	90,50
5.50	6.00	97.00	57.00	36.00	90,50
5.70	6.00	97.00	57.00	36.00	90,50
5.80	6.00	97.00	57.00	36.00	90,50
5.90	6.00	97.00	57.00	36.00	90,50
6.00	6.00	97.00	57.00	36.00	90,50
6.20	8.00	106.00	66.00	36.00	105,00
6.35	8.00	106.00	66.00	36.00	105,00
6.50	8.00	106.00	66.00	36.00	105,00
6.60	8.00	106.00	66.00	36.00	105,00
6.70	8.00	106.00	66.00	36.00	105,00
6.80	8.00	106.00	66.00	36.00	105,00
6.90	8.00	116.00	76.00	36.00	105,00
7.00	8.00	116.00	76.00	36.00	105,00
7.10	8.00	116.00	76.00	36.00	105,00
7.20	8.00	116.00	76.00	36.00	105,00
7.40	8.00	116.00	76.00	36.00	105,00
7.50	8.00	116.00	76.00	36.00	105,00
7.60	8.00	116.00	76.00	36.00	105,00
7.70	8.00	116.00	76.00	36.00	105,00

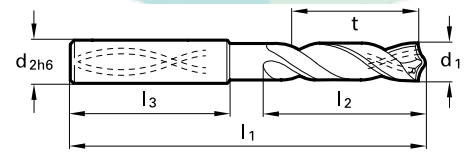


$$t_{\max} = l_2 - 1,5 \times d_1$$

9180 Punta in Metallo Duro Micrograna

Solid Carbide Drills

Ricoperta T-Red / Profondità foro fino a 12xD / Con fori di refrigerazione / Toll. m7
 Nano T-Red coated / Drilling depth 12xD / With oil feed / Tolerance m7



$$t_{\max} = l_2 - 1,5 \times d_1$$

d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
3.00	6.00	90.00	50.00	36.00	121,40
3.10	6.00	90.00	50.00	36.00	121,40
3.17	6.00	90.00	50.00	36.00	121,40
3.20	6.00	90.00	50.00	36.00	121,40
3.25	6.00	90.00	50.00	36.00	121,40
3.30	6.00	90.00	50.00	36.00	121,40
3.40	6.00	90.00	50.00	36.00	121,40
3.50	6.00	90.00	50.00	36.00	121,40
3.57	6.00	90.00	50.00	36.00	121,40
3.60	6.00	90.00	50.00	36.00	121,40
3.70	6.00	90.00	50.00	36.00	121,40
3.80	6.00	102.00	64.00	36.00	121,40
3.90	6.00	102.00	64.00	36.00	121,40
3.97	6.00	102.00	64.00	36.00	121,40
4.00	6.00	102.00	64.00	36.00	121,40
4.10	6.00	102.00	64.00	36.00	121,40
4.20	6.00	102.00	64.00	36.00	121,40
4.30	6.00	102.00	64.00	36.00	121,40
4.40	6.00	102.00	64.00	36.00	121,40
4.50	6.00	102.00	64.00	36.00	121,40
4.60	6.00	102.00	64.00	36.00	121,40
4.70	6.00	102.00	64.00	36.00	121,40
4.80	6.00	116.00	78.00	36.00	121,40
4.90	6.00	116.00	78.00	36.00	121,40
5.00	6.00	116.00	78.00	36.00	121,40
5.10	6.00	116.00	78.00	36.00	121,40
5.20	6.00	116.00	78.00	36.00	121,40
5.30	6.00	116.00	78.00	36.00	121,40
5.40	6.00	116.00	78.00	36.00	121,40
5.50	6.00	116.00	78.00	36.00	121,40
5.60	6.00	116.00	78.00	36.00	121,40
5.70	6.00	116.00	78.00	36.00	121,40
5.80	6.00	116.00	78.00	36.00	121,40
5.90	6.00	116.00	78.00	36.00	121,40
6.00	6.00	116.00	78.00	36.00	121,40
6.10	8.00	146.00	108.00	36.00	142,40
6.20	8.00	146.00	66.00	36.00	142,40
6.30	8.00	146.00	66.00	36.00	142,40
6.35	8.00	146.00	66.00	36.00	142,40
6.40	8.00	146.00	108.00	36.00	142,40
6.50	8.00	146.00	108.00	36.00	142,40
6.60	8.00	146.00	108.00	36.00	142,40
6.70	8.00	146.00	108.00	36.00	142,40
6.80	8.00	146.00	108.00	36.00	142,40
6.90	8.00	146.00	108.00	36.00	142,40
7.00	8.00	146.00	108.00	36.00	142,40
7.10	8.00	146.00	108.00	36.00	142,40
7.20	8.00	146.00	108.00	36.00	142,40
7.30	8.00	146.00	108.00	36.00	142,40
7.40	8.00	146.00	108.00	36.00	142,40
7.50	8.00	146.00	108.00	36.00	142,40

d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
7.60	8.00	146.00	108.00	36.00	142,40
7.70	8.00	146.00	108.00	36.00	142,40
7.80	8.00	146.00	108.00	36.00	142,40
7.90	8.00	146.00	108.00	36.00	142,40
8.00	8.00	146.00	108.00	36.00	142,40
8.10	10.00	162.00	120.00	40.00	180,20
8.20	10.00	162.00	120.00	40.00	180,20
8.30	10.00	162.00	120.00	40.00	180,20
8.40	10.00	162.00	120.00	40.00	180,20
8.50	10.00	162.00	120.00	40.00	180,20
8.60	10.00	162.00	120.00	40.00	180,20
8.70	10.00	162.00	120.00	40.00	180,20
8.80	10.00	162.00	120.00	40.00	180,20
8.90	10.00	162.00	120.00	40.00	180,20
9.00	10.00	162.00	120.00	40.00	180,20
9.10	10.00	162.00	120.00	40.00	180,20
9.20	10.00	162.00	120.00	40.00	180,20
9.30	10.00	162.00	120.00	40.00	180,20
9.40	10.00	162.00	120.00	40.00	180,20
9.50	10.00	162.00	120.00	40.00	180,20
9.52	10.00	162.00	120.00	40.00	180,20
9.60	10.00	162.00	120.00	40.00	180,20
9.70	10.00	162.00	120.00	40.00	180,20
9.80	10.00	162.00	120.00	40.00	180,20
9.90	10.00	162.00	120.00	40.00	180,20
10.00	10.00	162.00	120.00	40.00	180,20
10.20	12.00	204.00	156.00	45.00	236,00
10.50	12.00	204.00	156.00	45.00	236,00
11.00	12.00	204.00	156.00	45.00	236,00
11.50	12.00	204.00	156.00	45.00	236,00
12.00	12.00	204.00	156.00	45.00	236,00
12.50	14.00	230.00	182.00	45.00	293,90
12.70	14.00	230.00	182.00	45.00	293,90
13.00	14.00	230.00	182.00	45.00	293,90
13.50	14.00	230.00	182.00	45.00	293,90
14.00	14.00	230.00	182.00	45.00	293,90
14.50	16.00	260.00	208.00	48.00	416,80
15.00	16.00	260.00	208.00	48.00	416,80
15.50	16.00	260.00	208.00	48.00	416,80
16.00	16.00	260.00	208.00	48.00	416,80
16.50	18.00	285.00	234.00	48.00	464,40
17.00	18.00	285.00	234.00	48.00	464,40
17.50	18.00	285.00	234.00	48.00	464,40
18.00	18.00	285.00	234.00	48.00	464,40
18.50	20.00	310.00	258.00	50.00	662,10
19.00	20.00	310.00	258.00	50.00	662,10
19.05	20.00	310.00	258.00	50.00	662,10
19.50	20.00	310.00	258.00	50.00	662,10
20.00	20.00	310.00	258.00	50.00	662,10

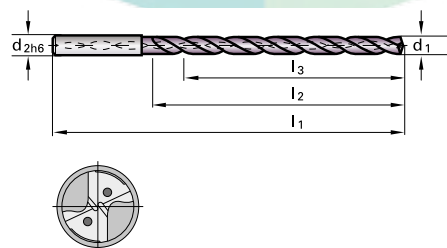
9192 Punta in Metallo Duro Micrograna

Solid Carbide Drills

Ricoperta T-Red / Profondità foro fino a 20xD / Con fori di refrigerazione / Toll. m7
 Nano T-Red coated / Drilling deep 20xD / With oil feed / Tolerance m7



d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
3.00	6.00	110.00	66.00	60.00	290,30
4.00	6.00	130.00	88.00	80.00	290,30
4.50	6.00	140.00	99.00	90.00	290,30
5.00	6.00	150.00	110.00	100.00	296,10
5.50	6.00	160.00	121.00	110.00	296,10
6.00	6.00	170.00	132.00	120.00	296,10
6.50	8.00	185.00	143.00	130.00	441,20
7.00	8.00	195.00	154.00	140.00	441,20
8.00	8.00	215.00	176.00	160.00	441,20
8.50	10.00	230.00	187.00	170.00	614,30
10.00	10.00	265.00	220.00	200.00	614,30
12.00	12.00	315.00	264.00	240.00	789,60



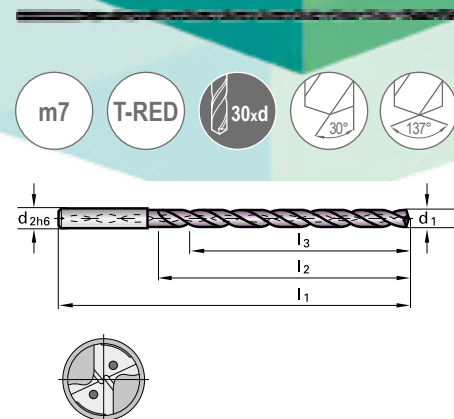
- Se possibile, utilizzare un mandrino ad espansione idraulica;
- Si raccomanda di eseguire un foro pilota con una punta 9140 dello stesso diametro e profondità 1,5 x D;
- Entrare con la punta per fori profondi nel foro pilota ad una velocità di circa 300 giri/min ed un avanzamento di circa 500 mm/min senza utilizzare il refrigerante interno;
- Una volta che la punta è entrata nel foro pilota, impostare la velocità corretta e attivare l'adduzione del refrigerante interno;
- Iniziare a forare con il giusto avanzamento, in continuo sull'intera lunghezza, senza scaricare;
- Al raggiungimento della profondità desiderata, ridurre i giri a 300 giri/min ed effettuare il ritorno con avanzamento non superiore a f 10.000 mm/min;
- Nel caso di foratura con uscita del foro obliqua, ridurre la velocità di taglio e l'avanzamento del 40% 1 mm prima dell'uscita;
- La pressione consigliata per forature profonde 20 x D è di almeno 40 bar;
- Non far girare a vuoto le punte oltre i 500 giri/min;
- La forza centrifuga, unita alla lunghezza della punta, potrebbe provocarne la rottura prima di iniziare la foratura.

Parametri di utilizzo

Materiale	Velocità di taglio m/min	Avanzamento mm/giro						
		Ø3	Ø4	Ø5	Ø6	Ø8	Ø10	Ø12
Acciaio non legato < 800 N/mm ²	110	0.15	0.16	0.18	0.25	0.25	0.30	0.35
Acciaio non legato 800 - 1000 N/mm ²	100	0.15	0.16	0.18	0.25	0.25	0.30	0.35
Acciaio da bonifica non legato < 1000 N/mm ²	100	0.15	0.16	0.18	0.25	0.25	0.30	0.35
Acciaio da bonifica legato < 1200 N/mm ²	90	0.10	0.12	0.14	0.16	0.22	0.27	0.27
Acciaio da cementazione	100	0.10	0.10	0.12	0.15	0.18	0.20	0.20
Acciaio inossidabile	60	0.06	0.08	0.10	0.10	0.12	0.14	0.15
Acciai temprati 50 HRC	50	0.06	0.08	0.08	0.10	0.12	0.14	0.15
Ghisa grigia	100	0.12	0.16	0.16	0.20	0.25	0.30	0.30
Ghisa sferoidale	100	0.14	0.16	0.20	0.22	0.30	0.35	0.35
Ottone a truciolo corto	120	0.15	0.16	0.18	0.20	0.25	0.30	0.35

9193 Punta in Metallo Duro Micrograna Solid Carbide Drills

Ricoperta T-Red / Profondità foro fino a 30xD / Con fori di refrigerazione / Toll. m7
Nano T-Red coated / Drilling deep 30xD / With oil feed / Tolerance m7



d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
3.00	6.00	140.00	96.00	90.00	389,00
4.00	6.00	170.00	128.00	120.00	389,00
4.50	6.00	185.00	144.00	135.00	406,40
5.00	6.00	200.00	160.00	150.00	406,40
5.50	6.00	215.00	176.00	165.00	406,40
6.00	6.00	230.00	192.00	180.00	406,40
6.50	8.00	250.00	208.00	195.00	563,20
7.00	8.00	265.00	224.00	210.00	563,20

- Se possibile, utilizzare un mandrino ad espansione idraulica;
- Si raccomanda di eseguire un foro pilota con una punta 9140 dello stesso diametro e profondità 1,5 x D;
- Entrare con la punta per fori profondi nel foro pilota ad una velocità di circa 300 giri/min ed un avanzamento di circa 500 mm/min senza utilizzare il refrigerante interno;
- Una volta che la punta è entrata nel foro pilota, impostare la velocità corretta e attivare l'adduzione del refrigerante interno;
- Iniziare a forare con il giusto avanzamento, in continuo sull'intera lunghezza, senza scaricare;
- Al raggiungimento della profondità desiderata, ridurre i giri a 300 giri/min ed effettuare il ritorno con avanzamento non superiore a f 10.000 mm/min;
- Nel caso di foratura con uscita del foro obliqua, ridurre la velocità di taglio e l'avanzamento del 40% 1 mm prima dell'uscita;
- La pressione consigliata per forature profonde 30 x D è di almeno 40 bar;
- Non far girare a vuoto le punte oltre i 500 giri/min;
- La forza centrifuga, unita alla lunghezza della punta, potrebbe provocarne la rottura prima di iniziare la foratura.

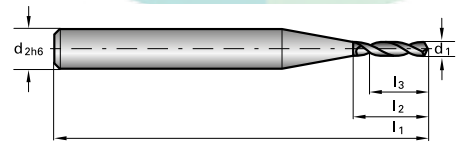
Parametri di utilizzo

Materiale	Velocità di taglio m/min	Avanzamento mm/giro						
		Ø3	Ø4	Ø5	Ø6	Ø8	Ø10	Ø12
Acciaio non legato < 800 N/mm ²	110	0.15	0.16	0.18	0.25	0.25	0.30	0.35
Acciaio non legato 800 - 1000 N/mm ²	100	0.15	0.16	0.18	0.25	0.25	0.30	0.35
Acciaio da bonifica non legato < 1000 N/mm ²	100	0.15	0.16	0.18	0.25	0.25	0.30	0.35
Acciaio da bonifica legato < 1200 N/mm ²	90	0.10	0.12	0.14	0.16	0.22	0.27	0.27
Acciaio da cementazione	100	0.10	0.10	0.12	0.15	0.18	0.20	0.20
Acciaio inossidabile	60	0.06	0.08	0.10	0.10	0.12	0.14	0.15
Acciai temprati 50 HRC	50	0.06	0.08	0.08	0.10	0.12	0.14	0.15
Ghisa grigia	100	0.12	0.16	0.16	0.20	0.25	0.30	0.30
Ghisa sferoidale	100	0.14	0.16	0.20	0.22	0.30	0.35	0.35
Ottone a truciolo corto	120	0.15	0.16	0.18	0.20	0.25	0.30	0.35

9191 Micropunta in Metallo Duro Micrograna

Micro Solid Carbide Drills

Ricoperta T-Red / Non forata
Nano T-Red coated / Without oil feed

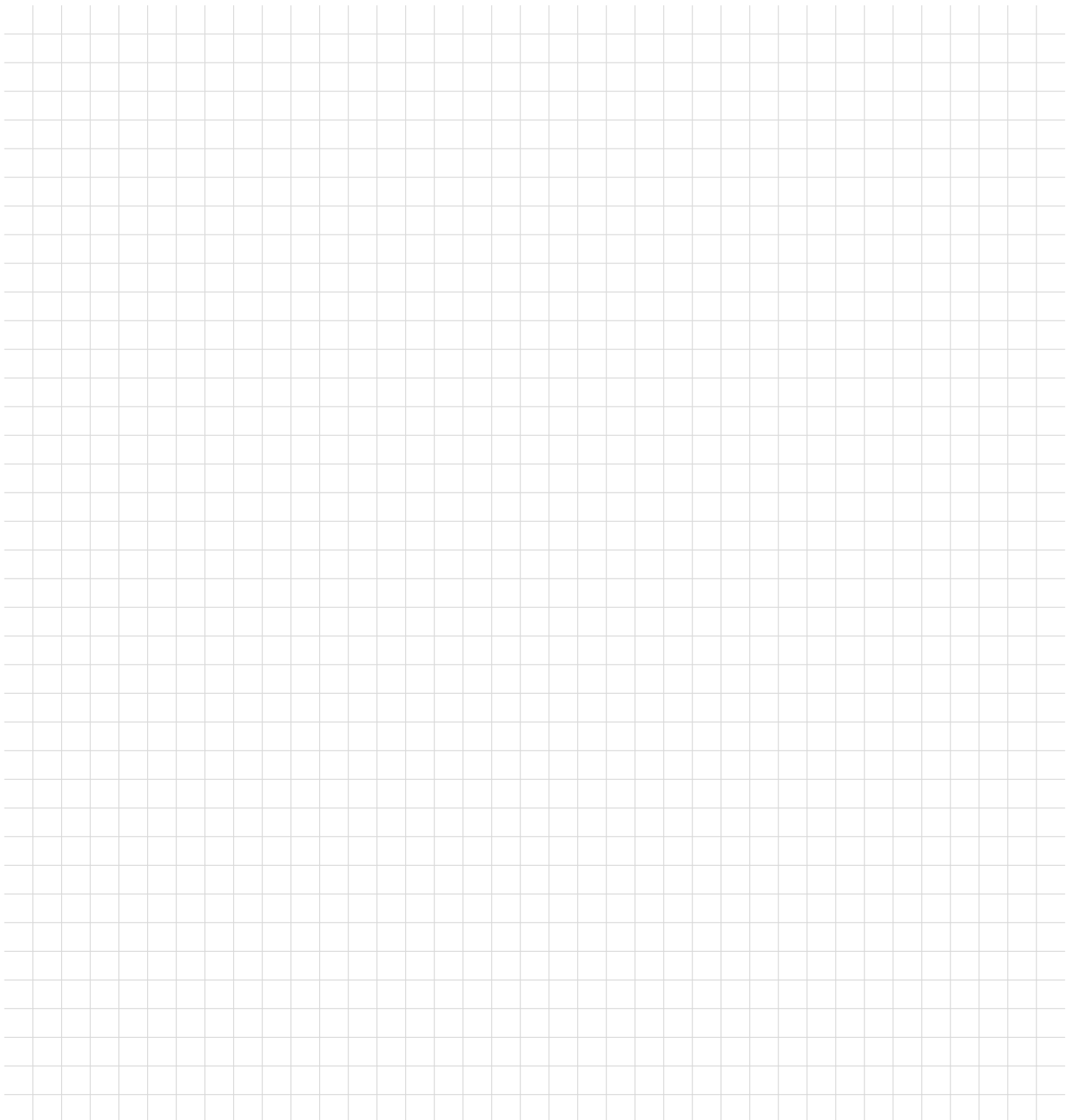


d1 mm	d2 mm	l ₁	l ₂	l ₃	€ pezzo/each
1.00	3.00	38.00	7.50	5.00	40,60
1.05	3.00	38.00	7.75	5.25	40,60
1.10	3.00	38.00	8.00	5.50	40,60
1.15	3.00	38.00	8.25	5.75	40,60
1.20	3.00	38.00	8.50	6.00	40,60
1.25	3.00	38.00	8.75	6.25	40,60
1.30	3.00	38.00	9.00	6.50	40,60
1.35	3.00	38.00	9.50	6.75	40,60
1.40	3.00	38.00	10.00	7.00	40,60
1.45	3.00	38.00	10.50	7.25	40,60
1.50	3.00	38.00	11.00	7.50	40,60
1.55	3.00	38.00	11.25	7.75	40,60
1.60	3.00	38.00	11.50	8.00	40,60
1.65	3.00	38.00	11.75	8.25	40,60
1.70	3.00	38.00	12.00	8.50	40,60
1.75	3.00	38.00	12.25	8.75	41,80
1.80	3.00	38.00	12.50	9.00	41,80
1.85	3.00	38.00	12.75	9.25	41,80
1.90	3.00	38.00	13.00	9.50	41,80
1.95	3.00	38.00	13.50	9.75	41,80
2.00	4.00	46.00	14.00	10.00	44,10
2.05	4.00	46.00	14.50	10.25	44,10
2.10	4.00	46.00	15.00	10.50	44,10
2.15	4.00	46.00	15.50	10.75	44,10
2.20	4.00	46.00	16.00	11.00	44,10
2.25	4.00	46.00	16.50	11.25	44,10
2.30	4.00	46.00	17.00	11.50	44,10
2.35	4.00	46.00	17.50	11.75	44,10
2.40	4.00	46.00	18.00	12.00	44,10
2.45	4.00	46.00	18.50	12.25	44,10
2.50	4.00	46.00	19.00	12.50	44,10
2.55	4.00	50.00	19.50	12.75	44,10
2.60	4.00	50.00	20.00	13.00	44,10
2.65	4.00	50.00	20.50	13.25	44,10
2.70	4.00	50.00	21.00	13.50	44,10
2.75	4.00	50.00	21.50	13.75	44,10
2.80	4.00	50.00	22.00	14.00	44,10
2.85	4.00	50.00	22.50	14.25	44,10
2.90	4.00	50.00	23.00	14.50	44,10
2.95	4.00	50.00	23.50	14.75	44,10
3.00	4.00	50.00	24.00	15.00	44,10



Parametri di utilizzo

Materiale	Velocità di taglio m/min	Avanzamento mm/giro				
		Ø1	Ø1.5	Ø2	Ø2.5	Ø3
Acciaio non legato < 800 N/mm ²	100	0.08	0.10	0.15	0.20	0.22
Acciaio non legato 800 - 1000 N/mm ²	90	0.07	0.08	0.12	0.15	0.18
Acciaio da bonifica non legato < 1000 N/mm ²	90	0.06	0.06	0.10	0.12	0.15
Acciaio da bonifica legato < 1200 N/mm ²	70	0.05	0.06	0.10	0.12	0.15
Acciaio da cementazione	70	0.05	0.06	0.08	0.10	0.12
Acciaio inossidabile	20	0.15	0.03	0.04	0.05	0.06
Ghisa grigia	100	0.10	0.12	0.15	0.20	0.25
Ghisa sferoidale	100	0.10	0.12	0.15	0.22	0.25

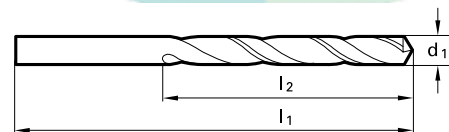


9160 Punta Lucida in Metallo Duro Elicoidale

Twist Drills Solid Carbide

DIN 6539 / Extra corta / Non forata / Toll. h7

DIN 6539 / Without oil feed / Tolerance h7

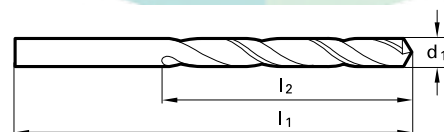


d1 mm	l ₁	l ₂	€ pezzo/each
2.00	38.00	12.00	3,20
2.10	38.00	12.00	3,20
2.20	40.00	13.00	3,20
2.30	40.00	13.00	3,20
2.38	43.00	14.00	3,20
2.40	43.00	14.00	3,20
2.50	43.00	14.00	3,20
2.60	43.00	14.00	3,20
2.70	46.00	16.00	4,90
2.78	46.00	16.00	4,90
2.80	46.00	16.00	4,90
2.90	46.00	16.00	4,90
3.00	46.00	16.00	4,90
3.10	49.00	18.00	4,90
3.17	49.00	18.00	4,90
3.20	49.00	18.00	4,90
3.30	49.00	18.00	4,90
3.40	52.00	20.00	4,90
3.50	52.00	20.00	4,90
3.57	52.00	20.00	5,60
3.60	52.00	20.00	5,60
3.70	52.00	20.00	5,60
3.80	55.00	22.00	6,10
3.90	55.00	22.00	6,10
3.97	55.00	22.00	6,10
4.00	55.00	22.00	6,10
4.10	55.00	22.00	6,70
4.20	55.00	22.00	6,70
4.30	58.00	24.00	6,70
4.37	58.00	24.00	6,70
4.40	58.00	24.00	6,70
4.50	58.00	24.00	6,70
4.60	58.00	24.00	6,70
4.70	58.00	24.00	7,10
4.76	62.00	26.00	7,10
4.80	62.00	26.00	7,10
4.90	62.00	26.00	7,10
5.00	62.00	26.00	7,10
5.20	62.00	26.00	9,30
5.50	66.00	28.00	9,30
5.80	66.00	28.00	9,70
6.00	66.00	28.00	9,70
6.35	70.00	31.00	12,30
6.50	70.00	31.00	12,30
6.80	74.00	34.00	15,30
7.00	74.00	34.00	14,80
7.14	74.00	34.00	17,60
7.50	74.00	34.00	17,60
8.00	79.00	37.00	20,00
8.50	79.00	37.00	24,60
8.73	79.00	37.00	26,60

9170 Punta Lucida in Metallo Duro Elicoidale

Twist Drills Solid Carbide

DIN 338 / Profondità foro fino a 5xD / Non forata / Toll. h7
 DIN 338 / Drilling deep to 5xD / Without oil feed / Tolerance h7



d1 mm	l ₁	l ₂	€ pezzo/each
2.00	49.00	24.00	4,10
2.10	49.00	24.00	4,70
2.20	53.00	27.00	5,10
2.30	53.00	27.00	5,10
2.38	57.00	30.00	5,10
2.40	57.00	30.00	5,10
2.50	57.00	30.00	5,10
2.60	57.00	30.00	7,10
2.70	61.00	33.00	7,10
2.78	61.00	33.00	7,10
2.80	61.00	33.00	7,10
2.90	61.00	33.00	7,10
3.00	61.00	33.00	7,10
3.10	65.00	36.00	7,10
3.20	65.00	36.00	7,10
3.30	65.00	36.00	7,10
3.40	70.00	36.00	7,10
3.50	70.00	36.00	7,10
3.57	70.00	36.00	8,20
3.60	70.00	36.00	8,20
3.70	70.00	36.00	8,20
3.80	75.00	43.00	8,20
3.90	75.00	43.00	8,20
3.97	75.00	43.00	8,20
4.00	75.00	43.00	8,20
4.10	75.00	43.00	8,70
4.20	75.00	43.00	8,70
4.30	80.00	47.00	11,30
4.37	80.00	47.00	11,30
4.40	80.00	47.00	11,30
4.50	80.00	47.00	10,30
4.60	80.00	47.00	11,80
4.70	80.00	47.00	11,80
4.76	86.00	52.00	11,80
4.80	86.00	52.00	11,80
4.90	86.00	52.00	11,80
5.00	86.00	52.00	11,30
5.16	86.00	52.00	15,30
5.50	93.00	57.00	15,30
5.56	93.00	57.00	15,70
5.95	93.00	57.00	15,70
6.00	93.00	57.00	15,70
6.20	93.00	57.00	20,00
6.35	101.00	63.00	20,00
6.50	101.00	63.00	20,00
6.70	101.00	63.00	23,60
6.80	109.00	69.00	23,60
7.00	109.00	69.00	23,60
7.14	109.00	69.00	26,60
7.50	109.00	69.00	23,60
8.00	117.00	75.00	27,70

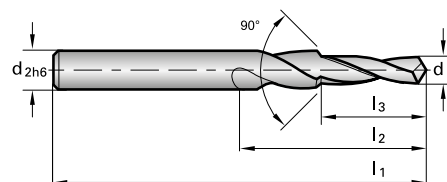
9170

d1 mm	l ₁	l ₂	€ pezzo/each
8.50	117.00	75.00	32,30
8.60	117.00	75.00	36,80
8.73	125.00	81.00	36,80
8.90	125.00	81.00	33,30
9.00	125.00	81.00	33,30
9.50	125.00	81.00	36,80
9.80	125.00	81.00	41,00
10.00	133.00	87.00	41,00
10.20	133.00	87.00	49,10
10.50	133.00	87.00	47,60
11.00	142.00	94.00	57,90
11.11	142.00	94.00	61,40
11.50	142.00	94.00	61,40
11.91	151.00	101.00	61,40
12.00	151.00	101.00	67,00

9190 Punta in Metallo Duro Solid Carbide Drills

Svasata per prefori maschiatura / Non forata
For tapping size holes / Without oil feed

d1 mm	d2 mm	Preforo maschiatura	l ₁	l ₂	l ₃	€ pezzo/each
2.50	6.00	M3	62.00	20.00	8.80	41,80
2.75	6.00	M3	62.00	20.00	8.80	41,80
3.30	6.00	M4	62.00	20.00	11.40	51,10
3.65	6.00	M4	62.00	20.00	11.40	51,10
4.20	6.00	M5	66.00	28.00	13.60	58,10
4.65	6.00	M5	66.00	28.00	13.60	58,10
5.00	8.00	M6	79.00	34.00	16.50	76,60
5.55	8.00	M6	79.00	34.00	16.50	76,60
6.80	10.00	M8	89.00	47.00	21.00	123,00
7.40	10.00	M8	89.00	47.00	21.00	123,00
8.50	12.00	M10	102.00	55.00	25.50	148,60
9.35	12.00	M10	102.00	55.00	25.50	148,60



Parametri di utilizzo: Punte in Metallo Duro

Velocità di taglio m/min

Materiale	Punte senza fori	Punte con fori	Punte per Al	Punte con fori	Punte preforo	Punte lucide
	3/5 x D	3/5/7 x D	con fori 10 x D	12 x D	maschiatura	3/5 x D
	9140/9150	9100/9110/9120	9130*	9180	9190	9160/9170
Acciaio non legato < 800 N/mm ²	130	140	-	110	130	70
Acciaio non legato 800 - 1000 N/mm ²	130	140	-	100	130	60
Acciaio da bonifica non legato < 1000 N/mm ²	120	130	-	90	120	50
Acciaio da bonifica legato < 1200 N/mm ²	110	130	-	80	110	40
Acciaio da cementazione	120	120	-	70	120	40
Acciaio inossidabile	50	60	-	40	50	25
Acciai temprati 50 HRC	50	60	-	-	50	20
Acciai temprati 60 HRC	30	40	-	-	30	-
Ghisa grigia	230	230	130	130	230	100
Ghisa sferoidale	160	170	100	100	160	70
Titanio e leghe di Titanio	40	40	-	-	40	20
Alluminio e leghe di Alluminio	250	280	-	160	250	180
Ottone a truciolo corto	280	320	300	130	280	180
Ottone a truciolo lungo	180	230	-	130	180	170
Bronzo a truciolo corto	110	130	-	-	110	80
Bronzo a truciolo lungo	90	100	-	50	90	70

* Utilizzare su leghe di alluminio e silicio a truciolo corto;
Per punte lucide ridurre la velocità e l'avanzamento del 30% / 50%.

Avanzamento mm/giro

Materiale	Diametri								
	Ø3	Ø4	Ø5	Ø6	Ø8	Ø10	Ø12	Ø16	Ø20
Acciaio non legato < 800 N/mm ²	0.10	0.14	0.15	0.20	0.25	0.28	0.30	0.40	0.50
Acciaio non legato 800 - 1000 N/mm ²	0.10	0.12	0.14	0.18	0.20	0.25	0.28	0.35	0.45
Acciaio da bonifica non legato < 1000 N/mm ²	0.10	0.12	0.12	0.15	0.20	0.25	0.25	0.30	0.40
Acciaio da bonifica legato < 1200 N/mm ²	0.10	0.12	0.12	0.15	0.20	0.25	0.25	0.30	0.40
Acciaio da cementazione	0.08	0.10	0.10	0.12	0.15	0.18	0.20	0.22	0.30
Acciaio inossidabile	0.06	0.08	0.08	0.10	0.12	0.15	0.15	0.18	0.20
Acciai temprati 50 HRC	0.05	0.06	0.06	0.08	0.10	0.12	0.12	0.15	0.16
Acciai temprati 60 HRC	0.04	0.05	0.05	0.06	0.08	0.10	0.10	0.12	0.15
Ghisa grigia	0.15	0.18	0.20	0.25	0.30	0.35	0.40	0.50	0.60
Ghisa sferoidale	0.14	0.16	0.18	0.22	0.28	0.30	0.35	0.45	0.50
Titanio e leghe di Titanio	0.06	0.07	0.08	0.10	0.12	0.15	0.16	0.20	0.25
Alluminio e leghe di Alluminio	0.15	0.20	0.20	0.25	0.30	0.35	0.40	0.50	0.60
Ottone a truciolo corto	0.14	0.15	0.16	0.20	0.28	0.35	0.40	0.45	0.50
Ottone a truciolo lungo	0.12	0.14	0.15	0.18	0.25	0.30	0.35	0.40	0.45
Bronzo a truciolo corto	0.10	0.12	0.12	0.15	0.18	0.20	0.25	0.30	0.40
Bronzo a truciolo lungo	0.07	0.10	0.10	0.12	0.15	0.18	0.20	0.25	0.35

34

The image features a large, stylized number '34' in the center-left. The number is filled with a gradient from light green to dark teal. The background is white with a faint, light gray grid pattern that curves across the page. A solid green border frames the top, bottom, and right sides, while a green triangle is positioned in the bottom-left corner.

Punte in HSS, HSCO e ASP HSS-E

HSS, HSCO and ASP
HSS-E Drills

9250 Punta HSCO Elicoidale

Twist Drills HSCO

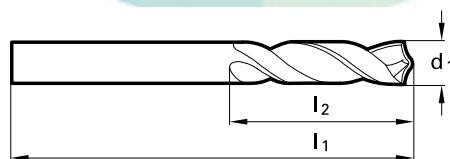
DIN 1897 / Serie extra corta / Toll. h8

DIN 1897 / Extra short / Tolerance h8



Quantitativo minimo 10 pezzi

d1 mm	l ₁	l ₂	€ pezzo/each
1.00	26.00	6.00	1,30
1.10	28.00	7.00	1,30
1.20	30.00	8.00	1,30
1.30	30.00	8.00	1,30
1.40	32.00	9.00	1,30
1.50	32.00	9.00	1,30
1.60	34.00	10.00	1,30
1.70	34.00	10.00	1,30
1.80	36.00	11.00	1,30
1.90	36.00	11.00	1,30
2.00	38.00	12.00	1,30
2.10	38.00	12.00	1,30
2.20	40.00	13.00	1,30
2.30	40.00	13.00	1,30
2.38	43.00	14.00	1,30
2.40	43.00	14.00	1,30
2.50	43.00	14.00	1,50
2.60	43.00	14.00	1,50
2.70	46.00	16.00	1,50
2.78	46.00	16.00	1,50
2.80	46.00	16.00	1,50
2.90	46.00	16.00	1,50
3.00	46.00	16.00	1,50
3.10	49.00	18.00	1,50
3.17	49.00	18.00	1,50
3.20	49.00	18.00	1,50
3.30	49.00	18.00	1,70
3.40	52.00	20.00	1,80
3.50	52.00	20.00	1,80
3.57	52.00	20.00	1,80
3.60	52.00	20.00	1,80
3.70	52.00	20.00	1,80
3.80	55.00	22.00	1,90
3.90	55.00	22.00	1,90
3.97	55.00	22.00	1,90
4.00	55.00	22.00	1,90
4.10	55.00	22.00	1,90
4.20	55.00	22.00	1,90
4.30	58.00	24.00	1,90
4.37	58.00	24.00	1,90
4.40	58.00	24.00	1,90
4.50	58.00	24.00	1,90
4.60	58.00	24.00	1,90
4.70	58.00	24.00	1,90
4.76	62.00	26.00	1,90
4.80	62.00	26.00	1,90
4.90	62.00	26.00	1,90
5.00	62.00	26.00	1,90
5.10	62.00	26.00	2,00
5.16	62.00	26.00	2,00
5.20	62.00	26.00	2,00



d1 mm	l ₁	l ₂	€ pezzo/each
5.30	62.00	26.00	2,00
5.40	66.00	28.00	2,00
5.50	66.00	28.00	2,10
5.56	66.00	28.00	2,30
5.60	66.00	28.00	2,30
5.70	66.00	28.00	2,30
5.80	66.00	28.00	2,30
5.90	66.00	28.00	2,30
5.95	66.00	28.00	2,30
6.00	66.00	28.00	2,30
6.10	70.00	31.00	2,70
6.20	70.00	31.00	2,70
6.30	70.00	31.00	2,70
6.35	70.00	31.00	2,70
6.40	70.00	31.00	2,70
6.50	70.00	31.00	2,50
6.60	70.00	31.00	2,80
6.70	70.00	31.00	2,80
6.80	74.00	34.00	3,20
6.90	74.00	34.00	3,20
7.00	74.00	34.00	3,20
7.10	74.00	34.00	4,00
7.14	74.00	34.00	4,00
7.20	74.00	34.00	4,00
7.30	74.00	34.00	4,00
7.40	74.00	34.00	4,00
7.50	74.00	34.00	3,30
7.60	79.00	37.00	4,40
7.70	79.00	37.00	4,40
7.80	79.00	37.00	4,40
7.90	79.00	37.00	4,40
7.94	79.00	37.00	4,40
8.00	79.00	37.00	3,60
8.10	79.00	37.00	4,40
8.20	79.00	37.00	4,40
8.30	79.00	37.00	4,40
8.40	79.00	37.00	4,40
8.50	79.00	37.00	3,90
8.73	84.00	40.00	5,10
8.80	84.00	40.00	5,10
9.00	84.00	40.00	4,40
9.30	84.00	40.00	5,50
9.50	84.00	40.00	4,90
9.80	89.00	43.00	6,20
10.00	89.00	43.00	5,50
10.20	89.00	43.00	7,10
10.50	89.00	43.00	7,10
11.00	95.00	47.00	8,50
11.11	95.00	47.00	9,40
11.50	95.00	47.00	9,40
12.00	102.00	51.00	9,80
12.50	102.00	51.00	12,10
13.00	102.00	51.00	14,40
13.50	107.00	54.00	14,80
14.00	107.00	54.00	15,40

9210 Punta HSCO Elicoidale

Twist drills HSCO

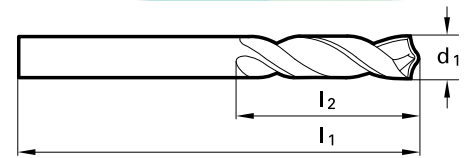
DIN 1897 / Rivestita TiN / Serie extra corta / Toll. h8

DIN 1897 / TiN coated / Extra short / Tolerance h8



Quantitativo minimo 10 pezzi

d1 mm	l ₁	l ₂	€ pezzo/each
1.00	26.00	6.00	3,90
1.10	28.00	7.00	3,90
1.20	30.00	8.00	4,00
1.30	30.00	8.00	4,00
1.40	32.00	9.00	3,80
1.50	32.00	9.00	3,60
1.60	34.00	10.00	3,80
1.70	34.00	10.00	3,80
1.80	36.00	11.00	3,80
1.90	36.00	11.00	3,80
2.00	38.00	12.00	3,10
2.10	38.00	12.00	3,90
2.20	40.00	13.00	3,90
2.30	40.00	13.00	3,20
2.38	43.00	14.00	3,40
2.40	43.00	14.00	3,90
2.50	43.00	14.00	3,30
2.60	43.00	14.00	4,00
2.70	46.00	16.00	4,20
2.78	46.00	16.00	4,10
2.80	46.00	16.00	4,00
2.90	46.00	16.00	4,20
3.00	46.00	16.00	3,40
3.10	49.00	18.00	3,80
3.17	49.00	18.00	3,80
3.20	49.00	18.00	3,50
3.30	49.00	18.00	3,50
3.40	52.00	20.00	4,10
3.50	52.00	20.00	3,50
3.57	52.00	20.00	4,00
3.60	52.00	20.00	4,50
3.70	52.00	20.00	4,10
3.80	55.00	22.00	4,40
3.90	55.00	22.00	5,00
3.97	55.00	22.00	4,50
4.00	55.00	22.00	4,00
4.10	55.00	22.00	4,80
4.20	55.00	22.00	4,00
4.30	58.00	24.00	4,60
4.37	58.00	24.00	4,90
4.40	58.00	24.00	5,00
4.50	58.00	24.00	4,60
4.60	58.00	24.00	4,80
4.70	58.00	24.00	5,00
4.76	62.00	26.00	5,20
4.80	62.00	26.00	5,30
4.90	62.00	26.00	5,30
5.00	62.00	26.00	4,50
5.10	62.00	26.00	5,00
5.16	62.00	26.00	5,10
5.20	62.00	26.00	5,30



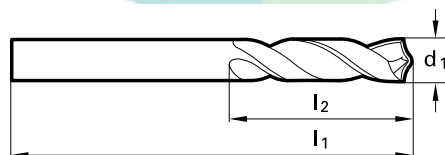
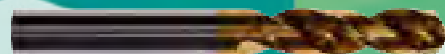
d1 mm	l ₁	l ₂	€ pezzo/each
5.30	62.00	26.00	5,50
5.40	66.00	28.00	5,90
5.50	66.00	28.00	5,10
5.56	66.00	28.00	5,50
5.60	66.00	28.00	6,00
5.70	66.00	28.00	6,40
5.80	66.00	28.00	6,10
5.90	66.00	28.00	6,50
5.95	66.00	28.00	5,90
6.00	66.00	28.00	5,40
6.10	70.00	31.00	6,40
6.20	70.00	31.00	6,40
6.30	70.00	31.00	6,60
6.35	70.00	31.00	6,60
6.40	70.00	31.00	6,60
6.50	70.00	31.00	6,40
6.60	70.00	31.00	7,00
6.70	70.00	31.00	7,30
6.80	74.00	34.00	7,70
6.90	74.00	34.00	7,60
7.00	74.00	34.00	7,10
7.10	74.00	34.00	8,60
7.14	74.00	34.00	8,70
7.20	74.00	34.00	8,80
7.30	74.00	34.00	8,80
7.40	74.00	34.00	9,00
7.50	74.00	34.00	7,50
7.60	79.00	37.00	9,40
7.70	79.00	37.00	9,50
7.80	79.00	37.00	9,50
7.90	79.00	37.00	9,50
7.94	79.00	37.00	9,20
8.00	79.00	37.00	8,80
8.10	79.00	37.00	11,30
8.20	79.00	37.00	11,80
8.30	79.00	37.00	11,90
8.40	79.00	37.00	11,90
8.50	79.00	37.00	10,30
8.73	84.00	40.00	11,50
8.80	84.00	40.00	12,80
9.00	84.00	40.00	10,50
9.30	84.00	40.00	11,90
9.50	84.00	40.00	11,50
9.80	89.00	43.00	13,80
10.00	89.00	43.00	11,40
10.20	89.00	43.00	14,50
10.50	89.00	43.00	13,80
11.00	95.00	47.00	15,10
11.11	95.00	47.00	16,50
11.50	95.00	47.00	17,50
12.00	102.00	51.00	17,10
12.50	102.00	51.00	18,90
13.00	102.00	51.00	18,90
13.50	107.00	54.00	19,90
14.00	107.00	54.00	14,00

9220 Punta ASP HSSE Elicoidale

Twist Drills PM Co-alloyed HSSE

DIN 1897 / Acciaio sinterizzato / Rivestita TiN / Serie extra corta / Toll. h8

DIN 1897 / TiN coated / Extra short / Tolerance h8



Quantitativo minimo 10 pezzi

d1 mm	l ₁	l ₂	€ pezzo/each
1.00	26.00	6.00	7,40
1.10	28.00	7.00	7,30
1.20	30.00	8.00	7,50
1.30	30.00	8.00	7,90
1.40	32.00	9.00	7,30
1.50	32.00	9.00	6,90
1.60	34.00	10.00	7,00
1.70	34.00	10.00	7,10
1.80	36.00	11.00	7,30
1.90	36.00	11.00	7,10
2.00	38.00	12.00	5,90
2.10	38.00	12.00	6,60
2.20	40.00	13.00	7,30
2.30	40.00	13.00	7,30
2.38	43.00	14.00	7,40
2.40	43.00	14.00	7,50
2.50	43.00	14.00	6,50
2.60	43.00	14.00	7,50
2.70	46.00	16.00	7,10
2.78	46.00	16.00	6,10
2.80	46.00	16.00	7,90
2.90	46.00	16.00	6,90
3.00	46.00	16.00	6,60
3.10	49.00	18.00	6,90
3.17	49.00	18.00	6,90
3.20	49.00	18.00	7,50
3.30	49.00	18.00	7,50
3.40	52.00	20.00	6,70
3.50	52.00	20.00	7,30
3.57	52.00	20.00	6,90
3.60	52.00	20.00	5,90
3.70	52.00	20.00	6,50
3.80	55.00	22.00	7,30
3.90	55.00	22.00	8,30
3.97	55.00	22.00	7,40
4.00	55.00	22.00	6,60
4.10	55.00	22.00	7,70
4.20	55.00	22.00	6,90
4.30	58.00	24.00	7,60
4.37	58.00	24.00	8,00
4.40	58.00	24.00	8,30
4.50	58.00	24.00	6,70
4.60	58.00	24.00	8,70
4.70	58.00	24.00	8,30
4.76	62.00	26.00	8,30
4.80	62.00	26.00	8,80
4.90	62.00	26.00	9,00
5.00	62.00	26.00	7,50
5.10	62.00	26.00	7,70
5.16	62.00	26.00	8,10
5.20	62.00	26.00	9,20

d1 mm	l ₁	l ₂	€ pezzo/each
5.30	62.00	26.00	8,70
5.40	66.00	28.00	9,30
5.50	66.00	28.00	8,10
5.56	66.00	28.00	9,60
5.60	66.00	28.00	9,50
5.70	66.00	28.00	10,20
5.80	66.00	28.00	10,40
5.90	66.00	28.00	10,20
5.95	66.00	28.00	9,70
6.00	66.00	28.00	8,40
6.10	70.00	31.00	10,20
6.20	70.00	31.00	10,20
6.30	70.00	31.00	10,60
6.35	70.00	31.00	10,50
6.40	70.00	31.00	10,50
6.50	70.00	31.00	8,80
6.60	70.00	31.00	11,20
6.70	70.00	31.00	11,50
6.80	74.00	34.00	10,30
6.90	74.00	34.00	12,10
7.00	74.00	34.00	13,60
7.10	74.00	34.00	14,80
7.14	74.00	34.00	14,30
7.20	74.00	34.00	14,60
7.30	74.00	34.00	14,60
7.40	74.00	34.00	14,70
7.50	74.00	34.00	14,20
7.60	79.00	37.00	15,70
7.70	79.00	37.00	15,90
7.80	79.00	37.00	13,60
7.90	79.00	37.00	15,70
7.94	79.00	37.00	17,00
8.00	79.00	37.00	14,60
8.10	79.00	37.00	18,80
8.20	79.00	37.00	19,50
8.30	79.00	37.00	19,70
8.40	79.00	37.00	19,70
8.50	79.00	37.00	16,50
8.73	84.00	40.00	17,90
8.80	84.00	40.00	23,00
9.00	84.00	40.00	18,10
9.30	84.00	40.00	27,00
9.50	84.00	40.00	21,80
9.80	89.00	43.00	23,40
10.00	89.00	43.00	20,80
10.20	89.00	43.00	30,80
10.50	89.00	43.00	29,60
11.00	95.00	47.00	29,60
11.11	95.00	47.00	34,90
11.50	95.00	47.00	31,40
12.00	102.00	51.00	36,20
12.50	102.00	51.00	39,40
13.00	102.00	51.00	39,40
13.50	107.00	54.00	42,00
14.00	107.00	54.00	52,00

9240 Punta HSCO Elicoidale

Twist Drills HSCO

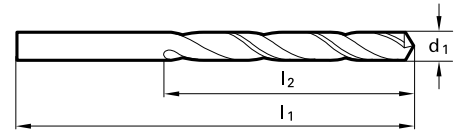
DIN 338 / Serie corta / Toll. h8

DIN 338 / Short / Tolerance h8



Quantitativo minimo 10 pezzi

d1 mm	l ₁	l ₂	€ pezzo/each
1.00	34.00	12.00	1,30
1.10	36.00	14.00	1,30
1.20	38.00	16.00	1,30
1.30	38.00	16.00	1,30
1.40	40.00	18.00	1,30
1.50	40.00	18.00	1,30
1.60	43.00	20.00	1,30
1.70	43.00	20.00	1,30
1.80	46.00	22.00	1,30
1.90	46.00	22.00	1,30
2.00	49.00	24.00	1,30
2.10	49.00	24.00	1,30
2.20	53.00	27.00	1,30
2.30	53.00	27.00	1,30
2.38	57.00	30.00	1,30
2.40	57.00	30.00	1,30
2.50	57.00	30.00	1,50
2.60	57.00	30.00	1,50
2.70	61.00	33.00	1,50
2.78	61.00	33.00	1,50
2.80	61.00	33.00	1,50
2.90	61.00	33.00	1,50
3.00	61.00	33.00	1,50
3.10	65.00	36.00	1,50
3.17	65.00	36.00	1,50
3.20	65.00	36.00	1,50
3.30	65.00	36.00	1,70
3.40	70.00	39.00	1,80
3.50	70.00	39.00	1,80
3.57	70.00	39.00	1,80
3.60	70.00	39.00	1,80
3.70	70.00	39.00	1,80
3.80	75.00	43.00	1,90
3.90	75.00	43.00	1,90
3.97	75.00	43.00	1,90
4.00	75.00	43.00	1,90
4.10	75.00	43.00	1,90
4.20	75.00	43.00	1,90
4.30	80.00	47.00	1,90
4.37	80.00	47.00	1,90
4.40	80.00	47.00	1,90
4.50	80.00	47.00	2,30
4.60	80.00	47.00	1,90
4.70	80.00	47.00	1,90
4.76	86.00	52.00	2,00
4.80	86.00	52.00	1,90
4.90	86.00	52.00	2,00
5.00	86.00	52.00	2,00
5.10	86.00	52.00	2,00
5.16	86.00	52.00	2,00
5.20	86.00	52.00	2,00



d1 mm	l ₁	l ₂	€ pezzo/each
5.30	86.00	52.00	2,00
5.40	93.00	57.00	2,20
5.50	93.00	57.00	2,10
5.56	93.00	57.00	2,30
5.60	93.00	57.00	2,30
5.70	93.00	57.00	2,30
5.80	93.00	57.00	2,30
5.90	93.00	57.00	2,30
5.95	93.00	57.00	2,30
6.00	93.00	57.00	2,30
6.10	101.00	63.00	2,70
6.20	101.00	63.00	2,70
6.30	101.00	63.00	2,70
6.35	101.00	63.00	2,70
6.40	101.00	63.00	2,70
6.50	101.00	63.00	2,70
6.60	101.00	63.00	2,80
6.70	101.00	63.00	2,80
6.80	109.00	69.00	3,20
6.90	109.00	69.00	3,20
7.00	109.00	69.00	3,20
7.10	109.00	69.00	4,00
7.14	109.00	69.00	4,00
7.20	109.00	69.00	4,00
7.30	109.00	69.00	4,00
7.40	109.00	69.00	4,00
7.50	109.00	69.00	3,30
7.60	117.00	75.00	4,40
7.70	117.00	75.00	4,40
7.80	117.00	75.00	4,40
7.90	117.00	75.00	4,40
7.94	117.00	75.00	4,40
8.00	117.00	75.00	3,60
8.10	117.00	75.00	4,40
8.20	117.00	75.00	4,40
8.30	117.00	75.00	4,40
8.40	117.00	75.00	4,40
8.50	117.00	75.00	3,90
8.73	125.00	81.00	5,10
8.80	125.00	81.00	5,10
9.00	125.00	81.00	4,40
9.30	125.00	81.00	5,50
9.50	125.00	81.00	4,90
9.80	133.00	87.00	6,30
10.00	133.00	87.00	5,50
10.20	133.00	87.00	7,30
10.50	133.00	87.00	7,30
11.00	142.00	94.00	8,50
11.11	142.00	94.00	9,40
11.50	142.00	94.00	9,40
12.00	151.00	101.00	10,00
12.50	151.00	101.00	12,10
13.00	151.00	101.00	14,40
13.50	160.00	108.00	16,50
14.00	160.00	108.00	17,10

9200 Punta HSCO Elicoidale

Twist Drills HSCO

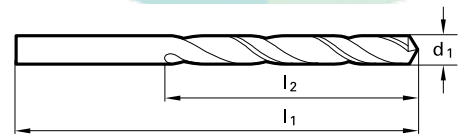
DIN 338 / Rivestita TiN / Serie corta / Toll. h8

DIN 338 / TiN coated / Short / Tolerance h8



Quantitativo minimo 10 pezzi

d1 mm	l ₁	l ₂	€ pezzo/each
1.00	34.00	12.00	3,00
1.10	36.00	14.00	3,20
1.20	38.00	16.00	3,20
1.30	38.00	16.00	3,20
1.40	40.00	18.00	3,30
1.50	40.00	18.00	3,10
1.60	43.00	20.00	3,10
1.70	43.00	20.00	3,30
1.80	46.00	22.00	3,30
1.90	46.00	22.00	3,30
2.00	49.00	24.00	3,20
2.10	49.00	24.00	3,30
2.20	53.00	27.00	3,40
2.30	53.00	27.00	3,40
2.38	57.00	30.00	3,40
2.40	57.00	30.00	3,20
2.50	57.00	30.00	3,20
2.60	57.00	30.00	3,40
2.70	61.00	33.00	3,60
2.78	61.00	33.00	3,60
2.80	61.00	33.00	3,60
2.90	61.00	33.00	3,60
3.00	61.00	33.00	3,50
3.10	65.00	36.00	3,90
3.17	65.00	36.00	3,90
3.20	65.00	36.00	3,80
3.30	65.00	36.00	3,90
3.40	70.00	39.00	4,10
3.50	70.00	39.00	4,20
3.57	70.00	39.00	4,20
3.60	70.00	39.00	4,20
3.70	70.00	39.00	4,20
3.80	75.00	43.00	4,50
3.90	75.00	43.00	4,60
3.97	75.00	43.00	4,50
4.00	75.00	43.00	4,40
4.10	75.00	43.00	4,50
4.20	75.00	43.00	4,50
4.30	80.00	47.00	4,90
4.37	80.00	47.00	4,90
4.40	80.00	47.00	4,90
4.50	80.00	47.00	4,80
4.60	80.00	47.00	4,80
4.70	80.00	47.00	5,00
4.76	86.00	52.00	5,00
4.80	86.00	52.00	5,10
4.90	86.00	52.00	5,10
5.00	86.00	52.00	5,00
5.10	86.00	52.00	5,10
5.16	86.00	52.00	5,10
5.20	86.00	52.00	5,10



d1 mm	l ₁	l ₂	€ pezzo/each
5.30	86.00	52.00	5,60
5.40	93.00	57.00	6,20
5.50	93.00	57.00	5,90
5.56	93.00	57.00	6,10
5.60	93.00	57.00	6,30
5.70	93.00	57.00	6,30
5.80	93.00	57.00	6,30
5.90	93.00	57.00	6,40
5.95	93.00	57.00	6,20
6.00	93.00	57.00	6,10
6.10	101.00	63.00	6,70
6.20	101.00	63.00	6,60
6.30	101.00	63.00	6,60
6.35	101.00	63.00	6,60
6.40	101.00	63.00	6,60
6.50	101.00	63.00	7,30
6.60	101.00	63.00	7,50
6.70	101.00	63.00	7,50
6.80	109.00	69.00	8,20
6.90	109.00	69.00	8,30
7.00	109.00	69.00	8,20
7.10	109.00	69.00	9,10
7.14	109.00	69.00	9,10
7.20	109.00	69.00	9,10
7.30	109.00	69.00	9,40
7.40	109.00	69.00	9,40
7.50	109.00	69.00	8,60
7.60	117.00	75.00	10,30
7.70	117.00	75.00	10,20
7.80	117.00	75.00	10,20
7.90	117.00	75.00	10,70
7.94	117.00	75.00	10,20
8.00	117.00	75.00	9,70
8.10	117.00	75.00	10,60
8.20	117.00	75.00	10,50
8.30	117.00	75.00	10,50
8.40	117.00	75.00	11,20
8.50	117.00	75.00	10,00
8.73	125.00	81.00	10,90
8.80	125.00	81.00	11,70
9.00	125.00	81.00	11,20
9.30	125.00	81.00	11,90
9.50	125.00	81.00	11,60
9.80	133.00	87.00	13,60
10.00	133.00	87.00	13,00
10.20	133.00	87.00	15,00
10.50	133.00	87.00	15,10
11.00	142.00	94.00	15,40
11.11	142.00	94.00	16,60
11.50	142.00	94.00	11,50
12.00	151.00	101.00	18,60
12.50	151.00	101.00	19,30
13.00	151.00	101.00	20,70
13.50	160.00	108.00	23,90
14.00	160.00	108.00	23,90

9230 Punta ASP HSS-E Elicoidale

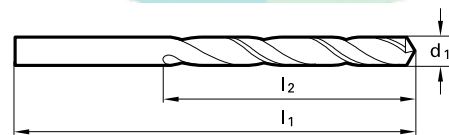
Twist Drills PM Co-alloyed HSSE

DIN 338 / Acciaio sinterizzato / Rivestita TiN / Serie corta / Toll. h8
 DIN 338 / TiN coated / Short / Tolerance h8



Quantitativo minimo 10 pezzi

d1 mm	l ₁	l ₂	€ pezzo/each
1.00	34.00	12.00	8,10
1.10	36.00	14.00	8,00
1.20	38.00	16.00	8,20
1.30	38.00	16.00	8,60
1.40	40.00	18.00	8,00
1.50	40.00	18.00	7,60
1.60	43.00	20.00	7,70
1.70	43.00	20.00	7,90
1.80	46.00	22.00	7,70
1.90	46.00	22.00	7,90
2.00	49.00	24.00	6,60
2.10	49.00	24.00	7,30
2.20	53.00	27.00	8,00
2.30	53.00	27.00	8,00
2.38	57.00	30.00	8,10
2.40	57.00	30.00	8,30
2.50	57.00	30.00	7,10
2.60	57.00	30.00	8,70
2.70	61.00	33.00	8,20
2.78	61.00	33.00	7,00
2.80	61.00	33.00	9,10
2.90	61.00	33.00	8,00
3.00	61.00	33.00	7,50
3.10	65.00	36.00	8,00
3.17	65.00	36.00	8,00
3.20	65.00	36.00	8,60
3.30	65.00	36.00	8,70
3.40	70.00	39.00	7,90
3.50	70.00	39.00	8,30
3.57	70.00	39.00	8,00
3.60	70.00	39.00	6,70
3.70	70.00	39.00	7,50
3.80	75.00	43.00	8,30
3.90	75.00	43.00	9,50
3.97	75.00	43.00	8,50
4.00	75.00	43.00	7,60
4.10	75.00	43.00	9,00
4.20	75.00	43.00	8,00
4.30	80.00	47.00	8,80
4.37	80.00	47.00	9,00
4.40	80.00	47.00	9,50
4.50	80.00	47.00	7,90
4.60	80.00	47.00	8,70
4.70	80.00	47.00	9,50
4.76	86.00	52.00	9,50
4.80	86.00	52.00	10,20
4.90	86.00	52.00	10,30
5.00	86.00	52.00	8,70
5.10	86.00	52.00	9,30
5.16	86.00	52.00	9,50
5.20	86.00	52.00	11,10



d1 mm	l ₁	l ₂	€ pezzo/each
5.30	86.00	52.00	10,40
5.40	93.00	57.00	11,30
5.50	93.00	57.00	9,60
5.56	93.00	57.00	11,60
5.60	93.00	57.00	11,50
5.70	93.00	57.00	12,20
5.80	93.00	57.00	12,50
5.90	93.00	57.00	12,20
5.95	93.00	57.00	11,70
6.00	93.00	57.00	10,20
6.10	101.00	63.00	12,10
6.20	101.00	63.00	12,10
6.30	101.00	63.00	12,70
6.35	101.00	63.00	12,60
6.40	101.00	63.00	12,60
6.50	101.00	63.00	10,60
6.60	101.00	63.00	13,50
6.70	101.00	63.00	13,80
6.80	109.00	69.00	13,70
6.90	109.00	69.00	14,60
7.00	109.00	69.00	16,30
7.10	109.00	69.00	17,80
7.14	109.00	69.00	17,10
7.20	109.00	69.00	17,60
7.30	109.00	69.00	17,60
7.40	109.00	69.00	17,70
7.50	109.00	69.00	17,00
7.60	117.00	75.00	19,00
7.70	117.00	75.00	19,10
7.80	117.00	75.00	16,00
7.90	117.00	75.00	19,00
7.94	117.00	75.00	20,30
8.00	117.00	75.00	17,60
8.10	117.00	75.00	23,40
8.20	117.00	75.00	24,30
8.30	117.00	75.00	24,30
8.40	117.00	75.00	24,30
8.50	117.00	75.00	20,80
8.73	125.00	81.00	22,30
8.80	125.00	81.00	28,70
9.00	125.00	81.00	22,80
9.30	125.00	81.00	34,10
9.50	125.00	81.00	27,00
9.80	133.00	87.00	29,20
10.00	133.00	87.00	26,10
10.20	133.00	87.00	34,40
10.50	133.00	87.00	38,70
11.00	142.00	94.00	38,70
11.11	142.00	94.00	45,70
11.50	142.00	94.00	40,90
12.00	151.00	101.00	46,70
12.50	151.00	101.00	51,00
13.00	151.00	101.00	51,00
13.50	160.00	108.00	54,20
14.00	160.00	108.00	68,00

9221 Punta HSS Elicoidale

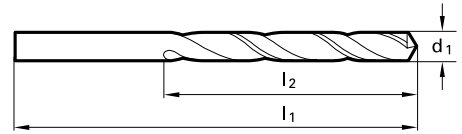
Twist Drills HSS

DIN 338 / Serie corta / Toll. h8 / Elica tipo N

DIN 338 / Short / Tolerance h8 / Helix type N



d1 mm	l ₁	l ₂	€ pezzo/each
0.30	19.00	3.00	2,40
0.40	20.00	5.00	1,90
0.50	22.00	6.00	1,60
0.60	24.00	7.00	1,50
0.70	28.00	9.00	1,40
0.75	28.00	9.00	1,70
0.80	30.00	10.00	1,30
0.90	32.00	11.00	1,30
1.00	34.00	12.00	1,30
1.10	36.00	14.00	1,20
1.20	38.00	16.00	1,30
1.25	38.00	16.00	1,40
1.30	38.00	16.00	1,20
1.40	40.00	18.00	1,10
1.50	40.00	18.00	1,10
1.60	43.00	20.00	1,00
1.70	43.00	20.00	1,00
1.75	46.00	22.00	1,10
1.80	46.00	22.00	0,90
1.90	46.00	22.00	0,90
2.00	49.00	24.00	0,80
2.10	49.00	24.00	0,90
2.20	53.00	27.00	0,90
2.25	53.00	27.00	1,10
2.30	53.00	27.00	0,90
2.40	57.00	30.00	0,90
2.50	57.00	30.00	0,90
2.60	57.00	30.00	1,00
2.70	61.00	33.00	1,00
2.75	61.00	33.00	1,30
2.80	61.00	33.00	1,00
2.90	61.00	33.00	1,00
3.00	61.00	33.00	0,90
3.10	65.00	36.00	1,10
3.20	65.00	36.00	1,10
3.25	65.00	36.00	1,20
3.30	65.00	36.00	1,10
3.40	70.00	39.00	1,10
3.50	70.00	39.00	0,90
3.60	70.00	39.00	1,10
3.70	70.00	39.00	1,20
3.75	70.00	39.00	1,40
3.80	75.00	43.00	1,30
3.90	75.00	43.00	1,30
4.00	75.00	43.00	1,00
4.10	75.00	43.00	1,40
4.20	75.00	43.00	1,20
4.25	75.00	43.00	1,60
4.30	80.00	47.00	1,40
4.40	80.00	47.00	1,40
4.50	80.00	47.00	1,30



d1 mm	l ₁	l ₂	€ pezzo/each
4.60	80.00	47.00	1,40
4.70	80.00	47.00	1,40
4.75	86.00	52.00	2,00
4.80	86.00	52.00	1,40
4.90	86.00	52.00	1,50
5.00	86.00	52.00	1,30
5.10	86.00	52.00	1,60
5.20	86.00	52.00	1,60
5.25	86.00	52.00	2,50
5.30	86.00	52.00	1,60
5.40	93.00	57.00	1,80
5.50	93.00	57.00	1,70
5.60	93.00	57.00	1,80
5.70	93.00	57.00	1,90
5.75	93.00	57.00	3,20
5.80	93.00	57.00	1,90
5.90	93.00	57.00	1,90
6.00	93.00	57.00	1,70
6.10	101.00	63.00	2,10
6.20	101.00	63.00	2,10
6.25	101.00	63.00	3,40
6.30	101.00	63.00	2,10
6.40	101.00	63.00	2,20
6.50	101.00	63.00	2,10
6.60	101.00	63.00	2,40
6.70	101.00	63.00	2,40
6.75	109.00	69.00	2,90
6.80	109.00	69.00	2,80
6.90	109.00	69.00	2,80
7.00	109.00	69.00	2,60
7.10	109.00	69.00	2,90
7.20	109.00	69.00	3,00
7.25	109.00	69.00	4,60
7.30	109.00	69.00	3,00
7.40	109.00	69.00	3,10
7.50	109.00	69.00	2,80
7.60	117.00	75.00	3,30
7.70	117.00	75.00	3,30
7.75	117.00	75.00	5,30
7.80	117.00	75.00	3,30
7.90	117.00	75.00	3,40
8.00	117.00	75.00	2,80
8.10	117.00	75.00	3,40
8.20	117.00	75.00	3,60
8.25	117.00	75.00	4,30
8.30	117.00	75.00	3,80
8.40	117.00	75.00	3,80
8.50	117.00	75.00	3,70
8.60	125.00	81.00	4,20
8.70	125.00	81.00	4,20
8.75	125.00	81.00	7,20
8.80	125.00	81.00	4,30
8.90	125.00	81.00	4,50
9.00	125.00	81.00	4,00
9.10	125.00	81.00	4,50
9.20	125.00	81.00	4,50
9.25	125.00	81.00	6,00

d1 mm	l ₁	l ₂	€ pezzo/each
9.30	125.00	81.00	4,60
9.40	125.00	81.00	4,60
9.50	125.00	81.00	4,50
9.60	133.00	87.00	5,10
9.70	133.00	87.00	5,10
9.75	133.00	87.00	6,60
9.80	133.00	87.00	5,70
9.90	133.00	87.00	5,70
10.00	133.00	87.00	4,80
10.10	133.00	87.00	6,00
10.20	133.00	87.00	6,10
10.25	133.00	87.00	8,30
10.30	133.00	87.00	7,40
10.40	133.00	87.00	7,40
10.50	133.00	87.00	6,20
10.60	133.00	87.00	7,80
10.70	142.00	94.00	9,00
10.75	142.00	94.00	9,90
10.80	142.00	94.00	8,80
10.90	142.00	94.00	9,40
11.00	142.00	94.00	7,20
11.10	142.00	94.00	9,40
11.20	142.00	94.00	9,00
11.25	142.00	94.00	10,70
11.30	142.00	94.00	9,60
11.40	142.00	94.00	9,60
11.50	142.00	94.00	7,80
11.60	142.00	94.00	9,60
11.70	142.00	94.00	9,90
11.80	142.00	94.00	10,10
11.90	151.00	101.00	11,00
12.00	151.00	101.00	8,80
12.10	151.00	101.00	11,70
12.20	151.00	101.00	11,70
12.30	151.00	101.00	10,80
12.40	151.00	101.00	12,50
12.50	151.00	101.00	9,80
12.60	151.00	101.00	13,00
12.70	151.00	101.00	10,90
12.80	151.00	101.00	13,20
12.90	151.00	101.00	14,60
13.00	151.00	101.00	10,80
13.25	160.00	108.00	18,00
13.50	160.00	108.00	12,50
13.75	160.00	108.00	20,40
14.00	160.00	108.00	13,90
14.25	169.00	114.00	22,50
14.50	169.00	114.00	14,90
14.75	169.00	114.00	23,00
15.00	169.00	114.00	16,10
15.25	178.00	120.00	29,90
15.50	178.00	120.00	17,50
15.75	178.00	120.00	31,60
16.00	178.00	120.00	18,90
16.25	184.00	125.00	39,50
16.50	184.00	125.00	21,60
16.75	184.00	125.00	43,40

9222 Punta HSCO Elicoidale

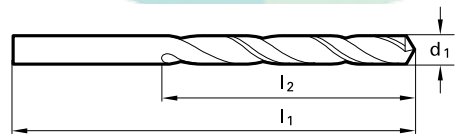
Twist Drills HSCO

DIN 338 / Serie corta / Toll. h8 / Elica tipo N

DIN 338 / Short / Tolerance h8 / Helix type N



d1 mm	l ₁	l ₂	€ pezzo/each
1.00	34.00	12.00	2,70
1.10	36.00	14.00	2,80
1.20	38.00	16.00	3,10
1.30	38.00	16.00	2,90
1.40	40.00	18.00	2,80
1.50	40.00	18.00	2,60
1.60	43.00	20.00	2,80
1.70	43.00	20.00	2,80
1.80	46.00	22.00	2,80
1.90	46.00	22.00	2,80
2.00	49.00	24.00	2,30
2.10	49.00	24.00	3,00
2.20	53.00	27.00	3,00
2.30	53.00	27.00	3,00
2.40	57.00	30.00	3,00
2.50	57.00	30.00	2,40
2.60	57.00	30.00	3,10
2.70	61.00	33.00	3,10
2.80	61.00	33.00	3,20
2.90	61.00	33.00	3,20
3.00	61.00	33.00	2,40
3.10	65.00	36.00	3,20
3.20	65.00	36.00	2,80
3.30	65.00	36.00	2,80
3.40	70.00	39.00	3,40
3.50	70.00	39.00	2,70
3.60	70.00	39.00	3,50
3.70	70.00	39.00	3,60
3.80	75.00	43.00	3,60
3.90	75.00	43.00	3,80
4.00	75.00	43.00	2,90
4.10	75.00	43.00	3,80
4.20	75.00	43.00	3,80
4.30	80.00	47.00	3,80
4.40	80.00	47.00	3,80
4.50	80.00	47.00	3,80
4.60	80.00	47.00	4,10
4.70	80.00	47.00	4,10
4.80	86.00	52.00	4,10
4.90	86.00	52.00	4,20
5.00	86.00	52.00	3,60
5.10	86.00	52.00	4,20
5.20	86.00	52.00	4,30
5.30	86.00	52.00	4,40
5.40	93.00	57.00	4,70
5.50	93.00	57.00	5,10
5.60	93.00	57.00	4,90
5.70	93.00	57.00	4,90
5.80	93.00	57.00	4,90
5.90	93.00	57.00	4,90
6.00	93.00	57.00	4,70



9223 Punta HSS Elicoidale

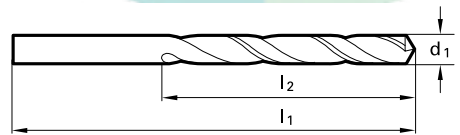
Twist Drills HSS

DIN 340 / Serie lunga / A forte torsione / Toll. h8

DIN 340 / Long series / Wide flutes / Tolerance h8



d1 mm	l ₁	l ₂	€ pezzo/each
1.00	56.00	33.00	5,30
1.10	60.00	37.00	5,70
1.20	65.00	41.00	5,40
1.30	65.00	41.00	5,50
1.40	70.00	45.00	5,10
1.50	70.00	45.00	4,40
1.60	76.00	50.00	4,20
1.70	76.00	50.00	4,20
1.80	80.00	53.00	4,10
1.90	80.00	53.00	4,10
2.00	85.00	56.00	3,90
2.10	85.00	56.00	4,40
2.20	90.00	59.00	4,50
2.30	90.00	59.00	4,60
2.40	95.00	62.00	4,70
2.50	95.00	62.00	4,00
2.60	95.00	62.00	4,70
2.70	100.00	66.00	4,70
2.80	100.00	66.00	4,70
2.90	100.00	66.00	4,80
3.00	100.00	66.00	4,10
3.10	106.00	69.00	5,50
3.20	106.00	69.00	4,60
3.30	106.00	69.00	5,30
3.40	112.00	73.00	5,50
3.50	112.00	73.00	4,70
3.60	112.00	73.00	6,10
3.70	112.00	73.00	5,60
3.80	119.00	78.00	5,70
3.90	119.00	78.00	6,00
4.00	119.00	78.00	5,10
4.10	119.00	78.00	6,10
4.20	119.00	78.00	5,70
4.30	126.00	82.00	6,50
4.40	126.00	82.00	6,70
4.50	126.00	82.00	6,00
4.60	126.00	82.00	6,70
4.70	126.00	82.00	6,70
4.80	132.00	87.00	6,70
4.90	132.00	87.00	7,00
5.00	132.00	87.00	6,30
5.10	132.00	87.00	7,30
5.20	132.00	87.00	7,60
5.30	132.00	87.00	7,80
5.40	139.00	91.00	7,90
5.50	139.00	91.00	7,40
5.60	139.00	91.00	8,90
5.70	139.00	91.00	9,20
5.80	139.00	91.00	11,70
5.90	139.00	91.00	9,40
6.00	139.00	91.00	9,80



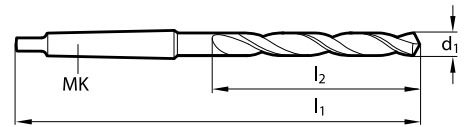
9224 Punta HSS Elicoidale Taper Shank Twist Drills HSS

DIN 345 / Attacco conico / Serie corta / Toll. h8

DIN 345 / Standard series / Tolerance h8



d1 mm	MK	l ₁	l ₂	€ pezzo/each
5.00	1.00	133.00	52.00	15,70
5.50	1.00	138.00	57.00	15,40
6.00	1.00	138.00	57.00	16,00
6.50	1.00	144.00	63.00	15,70
6.75	1.00	150.00	69.00	17,00
7.00	1.00	150.00	69.00	15,70
7.50	1.00	150.00	69.00	18,30
8.00	1.00	156.00	75.00	15,00
8.50	1.00	156.00	75.00	16,70
9.00	1.00	162.00	81.00	16,30
9.50	1.00	162.00	81.00	18,60
10.00	1.00	168.00	87.00	16,70
10.20	1.00	168.00	87.00	19,20
10.25	1.00	168.00	87.00	25,90
10.50	1.00	168.00	87.00	17,30
10.75	1.00	175.00	94.00	24,70
11.00	1.00	175.00	94.00	17,90
11.50	1.00	175.00	94.00	20,50
11.75	1.00	175.00	94.00	25,00
12.00	1.00	182.00	101.00	18,60
12.25	1.00	182.00	101.00	27,20
12.50	1.00	182.00	101.00	19,50
12.75	1.00	182.00	101.00	25,30
13.00	1.00	182.00	101.00	20,20
13.50	1.00	189.00	108.00	22,70
13.75	1.00	189.00	108.00	27,50
14.00	1.00	189.00	108.00	21,10
14.25	2.00	212.00	114.00	33,30
14.50	2.00	212.00	114.00	22,40
14.75	2.00	212.00	114.00	36,50
15.00	2.00	212.00	114.00	23,70
15.25	2.00	218.00	120.00	33,30
15.50	2.00	218.00	120.00	25,60
15.75	2.00	218.00	120.00	32,00
16.00	2.00	218.00	120.00	25,60
16.25	2.00	223.00	125.00	40,30
16.50	2.00	223.00	125.00	27,50
17.00	2.00	223.00	125.00	28,80
17.25	2.00	228.00	130.00	37,80
17.50	2.00	228.00	130.00	29,50
17.75	2.00	228.00	130.00	36,50
18.00	2.00	228.00	130.00	30,70
18.25	2.00	233.00	135.00	41,60
18.50	2.00	233.00	135.00	33,30
18.75	2.00	233.00	135.00	40,30
19.00	2.00	233.00	135.00	33,30
19.50	2.00	238.00	140.00	38,40
19.75	2.00	238.00	140.00	44,80
20.00	2.00	238.00	140.00	35,20
20.25	2.00	243.00	145.00	52,50
20.50	2.00	243.00	145.00	37,80



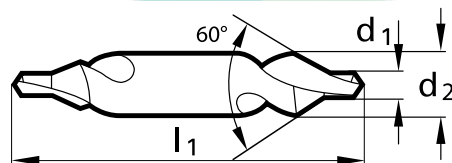
d1 mm	MK	l ₁	l ₂	€ pezzo/each
20.75	2.00	243.00	145.00	50,60
21.00	2.00	243.00	145.00	39,70
21.50	2.00	248.00	150.00	45,50
22.00	2.00	248.00	150.00	44,20
22.25	2.00	248.00	150.00	55,10
22.75	2.00	253.00	155.00	55,10
23.00	2.00	253.00	155.00	51,90
23.50	3.00	276.00	155.00	51,20
24.00	3.00	281.00	160.00	54,40
24.25	3.00	281.00	160.00	77,50
24.50	3.00	281.00	160.00	55,70
24.75	3.00	281.00	160.00	78,80
25.00	3.00	281.00	160.00	60,20
25.25	3.00	286.00	165.00	80,00
25.50	3.00	286.00	165.00	61,50
25.75	3.00	286.00	165.00	81,30
26.00	3.00	286.00	165.00	68,50
26.50	3.00	283.00	165.00	66,60
27.00	3.00	291.00	170.00	68,50
27.50	3.00	291.00	170.00	70,40
28.00	3.00	291.00	170.00	74,90
28.25	3.00	296.00	175.00	104,40
28.50	3.00	296.00	175.00	92,90
29.00	3.00	296.00	175.00	81,30
29.50	3.00	296.00	175.00	84,50
30.00	3.00	296.00	175.00	81,30
30.50	3.00	301.00	180.00	99,90
31.00	3.00	301.00	180.00	97,30
31.50	3.00	301.00	180.00	110,80
32.00	4.00	334.00	185.00	101,80
32.50	4.00	334.00	185.00	117,80
33.00	4.00	334.00	185.00	110,10
33.50	4.00	334.00	185.00	123,00
34.00	4.00	339.00	190.00	128,10
34.50	4.00	339.00	190.00	142,20
35.00	4.00	339.00	190.00	130,60
35.50	4.00	339.00	190.00	153,70
36.00	4.00	344.00	195.00	140,90
36.50	4.00	344.00	195.00	158,80
37.00	4.00	344.00	195.00	153,70
37.50	4.00	344.00	195.00	172,90
38.00	4.00	349.00	200.00	162,60
38.50	4.00	349.00	200.00	195,90
39.00	4.00	349.00	200.00	180,60
39.50	4.00	349.00	200.00	224,10
40.00	4.00	349.00	200.00	185,70
41.00	4.00	354.00	205.00	198,50
42.00	4.00	354.00	205.00	219,00
43.00	4.00	359.00	210.00	229,30
44.00	4.00	359.00	210.00	242,10
45.00	4.00	359.00	210.00	251,00
46.00	4.00	364.00	215.00	261,30
47.00	4.00	364.00	215.00	280,50
48.00	4.00	369.00	220.00	286,90
49.00	4.00	369.00	220.00	299,70
50.00	4.00	369.00	220.00	308,70

9225 Punta HSS a centrare Center Drills HSS

DIN 333
DIN 333



d1 mm	d2 mm	l ₁	€ pezzo/each
1.00	3.15	31.50	5,10
1.25	3.15	31.50	6,00
1.60	4.00	35.50	5,10
2.00	5.00	40.00	4,90
2.50	6.30	45.00	5,80
3.15	8.00	50.00	8,10
4.00	10.00	56.00	11,60
5.00	12.50	63.00	16,70
6.30	16.00	71.00	24,30
8.00	20.00	80.00	38,40
10.00	25.00	100.00	76,20

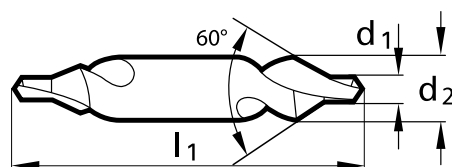


9226 Punta HSS a centrare Center Drills HSS

DIN 333 / Rivestimento TiAlN
DIN 333 / TiAlN coated



d1 mm	d2 mm	l ₁	€ pezzo/each
1.00	3.15	31.50	9,60
1.25	3.15	31.50	10,60
1.60	4.00	35.50	9,60
2.00	5.00	40.00	9,40
2.50	6.30	45.00	11,80
3.15	8.00	50.00	14,60
4.00	10.00	56.00	19,70
5.00	12.50	63.00	26,10
6.30	16.00	71.00	34,90
8.00	20.00	80.00	56,40
10.00	25.00	100.00	103,90



Parametri di utilizzo: Punte in HSS, HSCO e ASP HSS-E

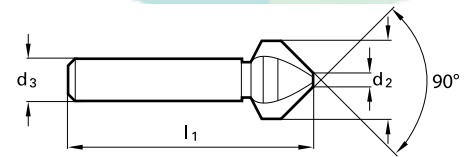
Materiale	N / mm ²	9250		9210		9220		9240		9200	
		Vc m/min	Col. avanz.	Vc m/min	Col. avanz.	Vc m/min	Col. avanz.	Vc m/min	Col. avanz.	Vc m/min	Col. avanz.
Acciaio da costruzione	>500 - 850	25	6	35	6	35	6	25	6	35	6
Acciaio automatico	850 - 1000	25	6	35	6	35	6	25	6	35	6
Acciaio da bonifica non legato	700 - 1000	20	5	30	5	30	5	20	5	30	5
Acciaio da bonifica legato	850 - 1200	10	3	15	3	20	4	10	3	15	3
Acciaio da cementazione legato	850 - 1200	10	3	15	3	20	4	10	3	15	3
Acciaio da utensili	850 - 1200	12	3	15	3	25	4	12	3	15	3
Acciaio super rapido	650 - 1000	8	3	12	3	15	3	8	3	12	3
Acciaio inossidabile allo zolfo	700 - 850	12	4	15	4	15	4	12	4	15	4
Acciaio inossidabile austenitico	700 - 850	8	4	10	4	10	3	8	4	10	4
Acciaio inossidabile martensitico	700 - 850	10	4	12	4	12	3	10	4	12	4
Acciaio temprato	40 - 50 HRC	-	-	-	-	-	-	-	-	-	-
Leghe speciali	1200	-	-	-	-	-	-	-	-	-	-
Ghisa	240 - 300	25	6	40	6	45	6	25	6	40	6
Ghisa sferoidale	240 - 300	20	6	35	6	40	6	20	6	35	6
Titanio e sue leghe	850 - 1200	-	-	-	-	-	-	-	-	-	-
Alluminio	400	40	7	60	7	-	-	40	7	60	7
Lega di alluminio > 10% Si	600	45	7	70	7	-	-	45	7	70	7
Lega di alluminio < 10% Si	600	40	6	60	6	-	-	40	6	60	6
Rame	450	20	5	30	5	50	5	20	5	30	5
Ottone a truciolo corto	600	40	5	50	5	-	-	40	5	50	5
Ottone a truciolo lungo	600	25	5	40	5	55	6	25	5	40	5
Bronzo a truciolo corto	600 - 850	30	4	45	4	45	4	30	4	45	4
Bronzo a truciolo lungo	850 - 1000	25	4	30	4	30	4	25	4	30	4

Materiale	N / mm ²	9230		9221		9222		9223		9224		9225	
		Vc m/min	Col. avanz.	Vc m/min	Col. avanz.	Vc m/min	Col. avanz.	Vc m/min	Col. avanz.	Vc m/min	Col. avanz.	Vc m/min	Col. avanz.
Acciaio da costruzione	>500 - 850	35	6	25	6	-	-	25	6	25	6	25	6
Acciaio automatico	850 - 1000	35	6	25	6	25	5	25	6	25	6	25	6
Acciaio da bonifica non legato	700 - 1000	30	5	20	5	20	4	20	5	20	5	20	5
Acciaio da bonifica legato	850 - 1200	20	4	-	-	15	4	-	-	-	-	-	-
Acciaio da cementazione legato	850 - 1200	20	4	-	-	12	4	-	-	-	-	-	-
Acciaio da utensili	850 - 1200	25	4	10	4	15	4	10	4	10	4	10	4
Acciaio super rapido	650 - 1000	15	3	-	-	10	3	-	-	-	-	-	-
Acciaio inossidabile allo zolfo	700 - 850	15	4	-	-	14	4	-	-	-	-	-	-
Acciaio inossidabile austenitico	700 - 850	10	3	-	-	10	3	-	-	-	-	-	-
Acciaio inossidabile martensitico	700 - 850	12	3	-	-	12	3	-	-	-	-	-	-
Acciaio temprato	40 - 50 HRC	-	-	-	-	-	-	-	-	-	-	-	-
Leghe speciali	1200	-	-	-	-	-	-	-	-	-	-	-	-
Ghisa	240 - 300	45	6	25	6	30	6	25	6	25	6	25	6
Ghisa sferoidale	240 - 300	40	6	20	6	25	6	20	6	20	6	20	6
Titanio e sue leghe	850 - 1200	-	-	-	-	-	-	-	-	-	-	-	-

9900 Svasatore HSS 90° Countersinks HSS 90°

DIN 335 / Lucido / Codolo cilindrico

DIN 335 / Bright / Straight shank

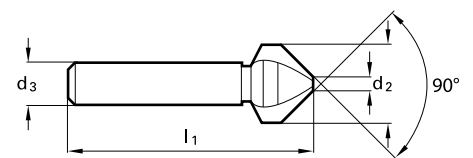


ØD	d2 mm	d3 mm	l ₁	Z	€ pezzo/each
4.30	1.30	4.00	40.00	3.00	7,20
5.30	1.50	4.00	40.00	3.00	7,20
6.30	1.50	5.00	45.00	3.00	7,30
8.30	2.00	6.00	50.00	3.00	8,20
10.00	2.50	6.00	50.00	3.00	8,80
12.40	2.80	8.00	56.00	3.00	10,00
16.50	3.20	10.00	60.00	3.00	11,80
20.50	3.50	10.00	63.00	3.00	16,40
25.00	3.80	10.00	67.00	3.00	22,70
31.00	4.20	12.00	71.00	3.00	33,80

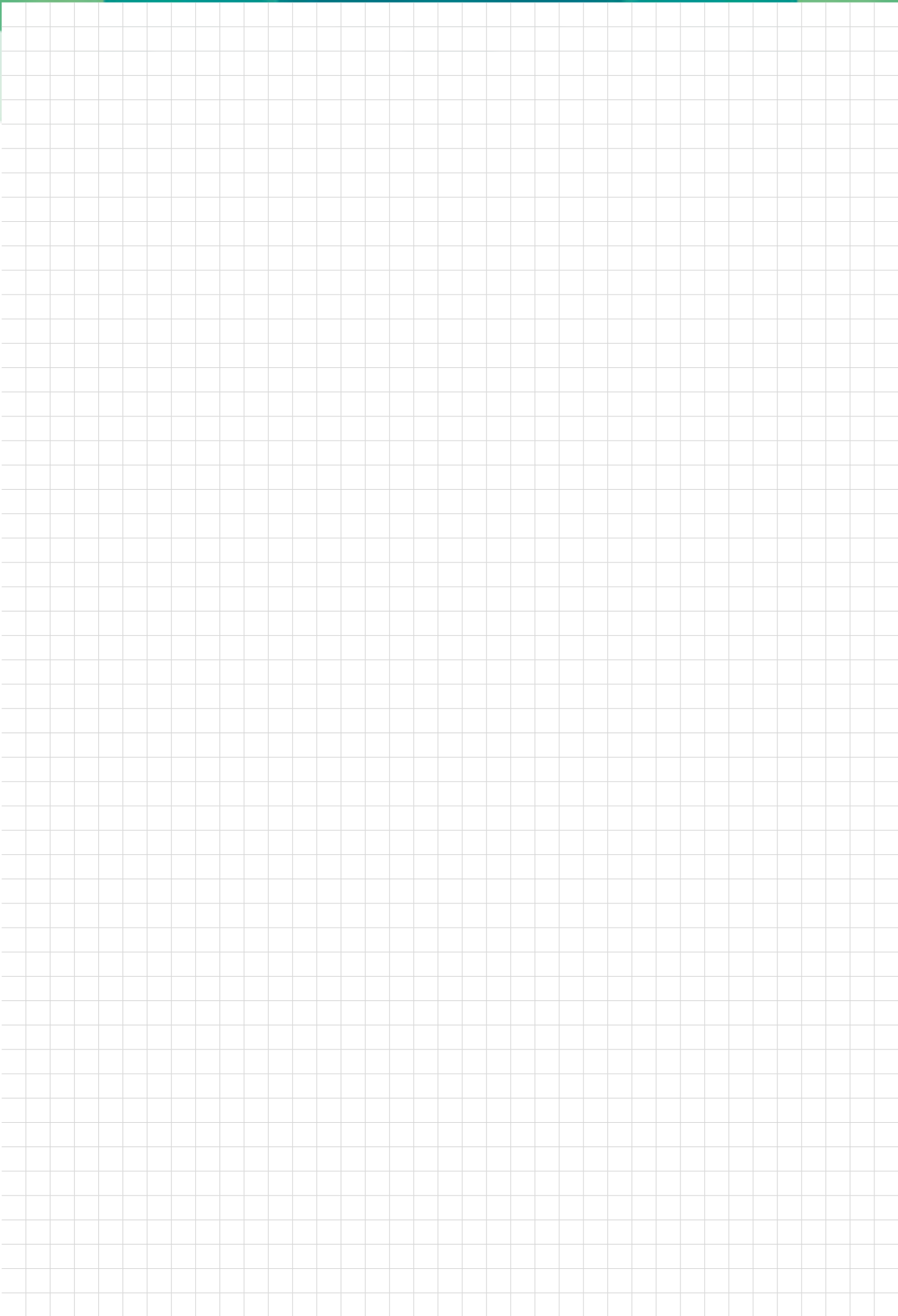
9901 Svasatore HSS 90° Countersinks HSS 90°

DIN 335 / Lucido / Codolo cilindrico / Rivestimento TiAIN

DIN 335 / Bright / Straight shank / TiAIN coated



ØD	d2 mm	d3 mm	l ₁	Z	€ pezzo/each
4.30	1.30	4.00	40.00	3.00	12,80
5.30	1.50	4.00	40.00	3.00	12,80
6.30	1.50	5.00	45.00	3.00	13,10
8.30	2.00	6.00	50.00	3.00	14,00
10.00	2.50	6.00	50.00	3.00	14,60
12.40	2.80	8.00	56.00	3.00	16,30
16.50	3.20	10.00	60.00	3.00	20,20
20.50	3.50	10.00	63.00	3.00	25,90
25.00	3.80	10.00	67.00	3.00	34,30
31.00	4.20	12.00	71.00	3.00	52,60



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Frese in Metallo Duro

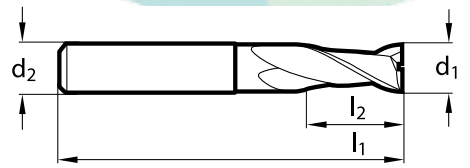
**Solid Carbide
end Mills**

9340 Fresa in Metallo Duro Micrograna

Nano Solid Carbide end Mills

DIN 6527 / Rivestita T-Red / Elica 30° / Corta per cave / 2 taglienti

DIN 6527 / T-Red coated / Helix 30° / Short / 2 flutes



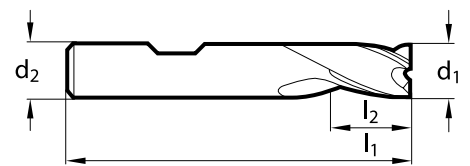
d1 mm	d2 mm	l ₁	l ₂	Z	€ pezzo/each
1.00	3.00	38.00	2.00	2	13,00
1.50	3.00	38.00	3.00	2	13,00
2.00	6.00	57.00	6.00	2	13,00
2.50	6.00	57.00	7.00	2	13,00
3.00	6.00	57.00	7.00	2	13,00
3.50	6.00	57.00	7.00	2	13,00
4.00	6.00	57.00	8.00	2	13,00
4.50	6.00	57.00	8.00	2	13,00
5.00	6.00	57.00	10.00	2	13,00
5.50	6.00	57.00	10.00	2	13,00
6.00	6.00	57.00	10.00	2	11,30
7.00	8.00	63.00	13.00	2	17,50
7.50	8.00	63.00	16.00	2	19,20
8.00	8.00	63.00	16.00	2	16,30
9.00	10.00	72.00	16.00	2	27,10
10.00	10.00	72.00	19.00	2	24,20
12.00	12.00	83.00	22.00	2	34,40
14.00	14.00	83.00	22.00	2	55,80
16.00	16.00	92.00	26.00	2	50,20
18.00	18.00	92.00	26.00	2	78,90
20.00	20.00	104.00	32.00	2	88,50

9370 Fresa in Metallo Duro Micrograna

Nano Solid Carbide end Mills

Rivestita T-Red / Elica 30° / Extra corta per cave / 3 taglienti / Attacco Weldon

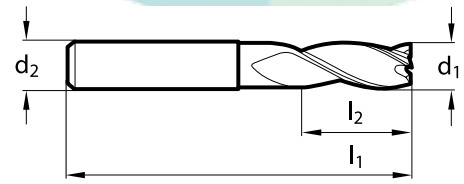
Nano T-Red coated / Helix 30° / Extra short / 3 flutes / Weldon shank



d1 mm	d2 mm	l ₁	l ₂	Z	€ pezzo/each
1.00	3.00	38.00	2.00	3	7,90
1.50	3.00	38.00	2.00	3	7,90
2.00	6.00	38.00	4.00	3	10,70
2.50	6.00	38.00	5.00	3	10,70
3.00	6.00	38.00	5.00	3	10,70
3.50	6.00	38.00	6.00	3	10,70
4.00	6.00	38.00	7.00	3	10,70
4.50	6.00	38.00	8.00	3	12,40
5.00	6.00	38.00	8.00	3	11,80
5.50	6.00	38.00	8.00	3	12,40
5.75	6.00	38.00	8.00	3	13,50
6.00	6.00	38.00	8.00	3	11,80
7.00	8.00	42.00	10.00	3	15,80
8.00	8.00	43.00	11.00	3	16,30
9.00	10.00	48.00	11.00	3	24,20
10.00	10.00	50.00	13.00	3	23,70
12.00	12.00	55.00	15.00	3	28,20

9350 Fresa in Metallo Duro Micrograna Nano Solid Carbide end Mills

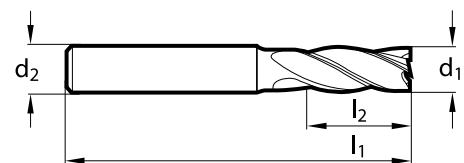
DIN 6527 L / Rivestita T-Red / Elica 30° / 3 taglienti
DIN 6527 L / Nano T-Red coated / Helix 30° / 3 flutes



d1 mm	d2 mm	l ₁	l ₂	Z	€ pezzo/each
2.00	6.00	57.00	6.00	3	12,40
3.00	6.00	57.00	7.00	3	12,40
4.00	6.00	57.00	8.00	3	12,40
5.00	6.00	57.00	10.00	3	12,40
6.00	6.00	57.00	10.00	3	12,40
8.00	8.00	63.00	16.00	3	16,30
10.00	10.00	72.00	19.00	3	22,50
12.00	12.00	83.00	22.00	3	35,50
14.00	14.00	83.00	22.00	3	44,00
16.00	16.00	92.00	26.00	3	51,90
20.00	16.00	92.00	26.00	3	92,40

9360 Fresa in Metallo Duro Micrograna Nano Solid Carbide end Mills

DIN 6527 L / Rivestita T-Red / Elica 30° / 4 taglienti
DIN 6527 L / Nano T-Red coated / Helix 30° / 4 flutes



d1 mm	d2 mm	l ₁	l ₂	Z	€ pezzo/each
2.00	6.00	57.00	7.00	4	13,50
3.00	6.00	57.00	8.00	4	12,40
4.00	6.00	57.00	11.00	4	11,30
5.00	6.00	57.00	13.00	4	11,30
6.00	6.00	57.00	13.00	4	12,40
7.00	8.00	63.00	16.00	4	19,20
8.00	8.00	63.00	19.00	4	18,00
9.00	10.00	72.00	19.00	4	27,60
10.00	10.00	72.00	22.00	4	27,10
12.00	12.00	83.00	26.00	4	33,80
14.00	14.00	83.00	26.00	4	50,70
16.00	16.00	92.00	32.00	4	65,40
18.00	18.00	92.00	32.00	4	86,20
20.00	20.00	104.00	38.00	4	102,60

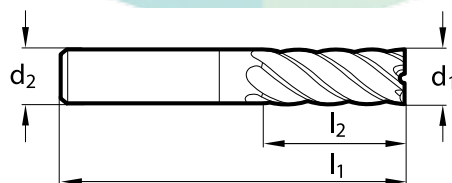
9365 Fresa in Metallo Duro Micrograna

Nano Solid Carbide end Mills

DIN 6527 L / Rivestita T-Red / Elica 45° / Multitagliente

DIN 6527 L / Nano T-Red coated / Helix 45° / Multi-tooth

d1 mm	d2 mm	l ₁	l ₂	Z	€ pezzo/each
4.00	6.00	57.00	11.00	6	20,30
5.00	6.00	57.00	13.00	6	19,20
6.00	6.00	57.00	13.00	6	19,20
8.00	8.00	63.00	19.00	6	23,10
10.00	10.00	72.00	22.00	6	36,10
12.00	12.00	83.00	26.00	6	49,60
16.00	16.00	92.00	32.00	6	89,10
20.00	20.00	104.00	38.00	8	124,60



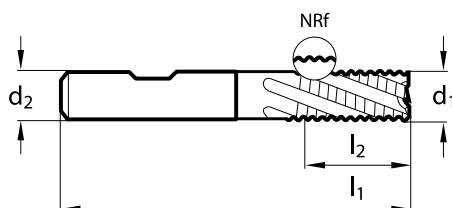
9375 Fresa in Metallo Duro Micrograna

Nano Solid Carbide end Mills

DIN 6527 L / Rivestita T-Red / Con profili di sgrossatura / Elica 30° / 4 taglienti / Attacco Weldon

DIN 6527 L / Nano T-Red coated / High performance roughing / Helix 30° / 4 flutes / Weldon shank

d1 mm	d2 mm	l ₁	l ₂	Z	€ pezzo/each
6.00	6.00	57.00	13.00	4	41,70
8.00	8.00	63.00	19.00	4	48,50
10.00	10.00	72.00	22.00	4	52,40
12.00	12.00	83.00	26.00	4	62,00
16.00	16.00	92.00	32.00	4	99,20
20.00	20.00	104.00	38.00	4	147,70

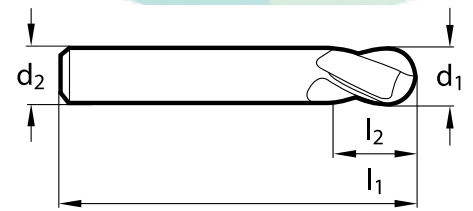


9385 Fresa in Metallo Duro Micrograna

Nano Solid Carbide end Mills

DIN 6527 L / Rivestita T-Red / Sferica / Elica 30° / 2 taglienti

DIN 6527 L / Nano T-Red coated / Ball nose / Helix 30° / 2 flutes



d1 mm	d2 mm	l ₁	l ₂	Z	€ pezzo/each
0.50	3.00	38.00	1.00	2	14,10
0.80	3.00	38.00	1.00	2	14,10
1.00	3.00	38.00	2.00	2	14,10
1.50	3.00	38.00	3.00	2	14,10
2.00	6.00	57.00	6.00	2	14,10
3.00	6.00	57.00	7.00	2	14,10
4.00	6.00	57.00	8.00	2	14,10
5.00	6.00	57.00	10.00	2	14,10
6.00	6.00	57.00	10.00	2	14,10
8.00	8.00	63.00	16.00	2	18,00
10.00	10.00	72.00	19.00	2	23,70
12.00	12.00	83.00	22.00	2	36,10
14.00	14.00	83.00	22.00	2	46,20
16.00	16.00	92.00	26.00	2	56,40
18.00	18.00	92.00	26.00	2	67,60
20.00	20.00	104.00	32.00	2	91,30

Parametri di utilizzo: Frese in Metallo Duro

Materiale	N / mm ²	9340		9370		9350		9360	
		Vc m/min	Col. avanz.	Vc m/min	Col. avanz.	Vc m/min	Col. avanz.	Vc m/min	Col. avanz.
Acciaio da costruzione	>500 - 850	90	6	90	6	90	6	160	12
Acciaio automatico	850 - 1000	80	5	80	5	80	5	160	11
Acciaio da bonifica non legato	700 - 1000	70	6	70	6	70	6	140	11
Acciaio da bonifica legato	850 - 1200	65	6	65	6	65	6	120	10
Acciaio da cementazione legato	850 - 1200	65	5	65	5	65	5	120	10
Acciaio da utensili	850 - 1000	70	4	70	4	70	4	140	10
Acciaio super rapido	650 - 1000	50	6	50	6	50	6	100	10
Acciaio inossidabile allo zolfo	700 - 850	45	6	45	6	45	6	90	8
Acciaio inossidabile austenitico	700 - 850	40	4	40	4	40	4	80	7
Acciaio inossidabile martensitico	700 - 850	35	5	35	5	35	5	70	8
Acciaio temprato	40 - 50 HRC	40	4	-	-	40	4	-	-
Leghe speciali	1200	25	4	-	-	25	4	50	9
Ghisa	240 - 300	120	5	120	5	120	5	200	11
Ghisa sferoidale	240 - 300	100	5	100	5	100	5	180	11
Titanio e sue leghe	850 - 1200	35	4	-	-	35	4	70	9
Alluminio	400	400	7	350	10	-	-	600	14
Lega di alluminio > 10% Si	600	200	7	150	10	-	-	350	12
Lega di alluminio < 10% Si	600	150	6	130	10	-	-	300	12
Rame	450	110	7	80	10	-	-	200	12
Ottone a truciolo corto	600	100	7	80	10	-	-	200	12
Ottone a truciolo lungo	600	80	6	70	10	-	-	180	12
Bronzo a truciolo corto	600 - 850	100	6	75	9	-	-	180	11
Bronzo a truciolo lungo	850 - 1000	75	5	65	8	-	-	-	-

Ap = profondità di taglio
Ae = larghezza di taglio
D = diametro fresa

Lavorazione in cava:
Ap = 0.5 x D
Ae = 1 x D

Lavorazione in cava:
Ap = 0.5 x D
Ae = 1 x D

Lavorazione in cava:
Ap = 0.5 x D
Ae = 1 x D

Lavorazione in contorn.:
Ap = 1 x D
Ae = 0.1 x D

Materiale	N / mm ²	9365		9375		9385	
		Vc m/min	Col. avanz.	Vc m/min	Col. avanz.	Vc m/min	Col. avanz.
Acciaio da costruzione	>500 - 850	190	12	100	7	160	12
Acciaio automatico	850 - 1000	190	11	100	6	160	11
Acciaio da bonifica non legato	700 - 1000	170	11	90	6	130	11
Acciaio da bonifica legato	850 - 1200	150	10	80	5	150	10
Acciaio da cementazione legato	850 - 1200	150	10	80	5	130	10
Acciaio da utensili	850 - 1000	170	10	80	5	140	10
Acciaio super rapido	650 - 1000	110	10	-	-	100	10
Acciaio inossidabile allo zolfo	700 - 850	90	10	50	5	90	10
Acciaio inossidabile austenitico	700 - 850	85	9	40	4	80	9
Acciaio inossidabile martensitico	700 - 850	80	10	45	5	70	10
Acciaio temprato	40 - 50 HRC	50	7	25	2	50	8
Leghe speciali	1200	55	9	25	4	50	9

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Frese in Metallo Duro a Passo Differenziato

**Solid Carbide Unequal
Helix end Mills**

9335 Fresa in Metallo Duro

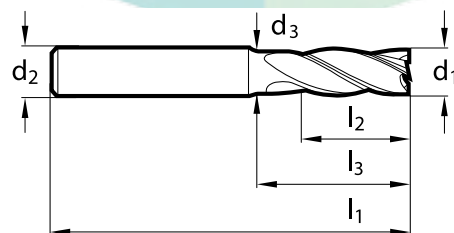
Solid Carbide end Mills

DIN 6527 L / Rivestita T-Red / Elica a passo differenziato 35-38° / 4 taglienti

DIN 6527 L / Nano T-Red coated / unequal helix 35-38° / 4 flutes



d1 mm	d2 mm	d3 mm	l ₁	l ₂	l ₃	Z	€ pezzo/each	
4.00	6.00	3.70	57.00	11.00	18.00	4	16,30	
5.00	6.00	4.70	57.00	13.00	18.00	4	16,30	
6.00	6.00	5.50	57.00	13.00	21.00	4	20,30	
8.00	8.00	7.50	63.00	19.00	27.00	4	28,70	
10.00	10.00	9.20	72.00	22.00	32.00	4	42,80	
12.00	12.00	11.20	83.00	26.00	38.00	4	55,20	
16.00	16.00	15.00	92.00	32.00	44.00	4	95,80	
20.00	20.00	19.00	104.00	38.00	54.00	4	148,20	
25.00	25.00	23.50	121.00	45.00	65.00	4	235,60	



9500^{HA} / 9501^{HB} Fresa in Metallo Duro

Solid Carbide end Mills

DIN 6527 / Rivestita T-Red / Elica a passo differenziato 41-43-45° / 3 taglienti

DIN 6527 / Nano T-Red coated / Unequal helix 41-43-45° / 3 flutes

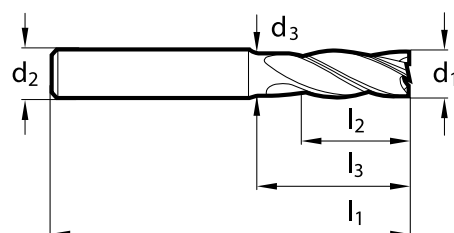


HA



HB

d1 mm	d2 mm	d3 mm	l ₁	l ₂	l ₃	Z	€ pezzo/each	
							HA	HB
e8								
3.00	6.00	2.70	57.00	8.00	15.00	3	19,19	23,97
3.50	6.00	3.20	57.00	10.00	15.00	3	21,38	26,16
3.70	6.00	3.40	57.00	11.00	15.00	3	22,52	27,31
4.00	6.00	3.70	57.00	11.00	18.00	3	19,19	23,97
4.50	6.00	4.20	57.00	11.00	18.00	3	21,38	26,16
4.70	6.00	4.40	57.00	13.00	18.00	3	22,52	27,31
5.00	6.00	4.70	57.00	13.00	18.00	3	19,19	23,97
5.50	6.00	5.20	57.00	13.00	18.00	3	21,38	26,16
5.70	6.00	5.40	57.00	13.00	18.00	3	22,52	27,31
6.00	6.00	5.50	57.00	13.00	21.00	3	25,07	29,85
6.50	8.00	6.00	63.00	16.00	27.00	3	28,05	32,84
7.00	8.00	6.50	63.00	16.00	27.00	3	30,60	35,38
7.50	8.00	7.00	63.00	19.00	27.00	3	34,31	39,09
8.00	8.00	7.50	63.00	19.00	27.00	3	35,78	40,56
8.50	10.00	8.00	72.00	19.00	32.00	3	40,21	45,00
9.00	10.00	8.50	72.00	19.00	32.00	3	46,10	50,88
9.50	10.00	9.00	72.00	22.00	32.00	3	51,28	56,06
10.00	10.00	9.20	72.00	22.00	32.00	3	53,47	60,47
12.00	12.00	11.20	83.00	26.00	38.00	3	68,85	78,19
16.00	16.00	15.00	92.00	32.00	44.00	3	119,50	133,50
20.00	20.00	19.00	104.00	38.00	54.00	3	189,57	203,57

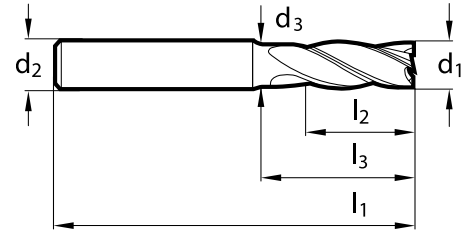
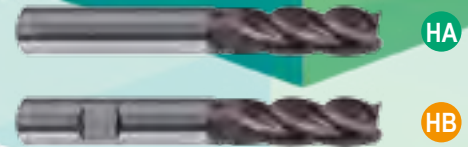


9502^{HA} / 9503^{HB} Fresa in Metallo Duro VA

Solid Carbide end Mills for Stainless Steel

DIN 6527 / Rivestita T-Red / Elica a passo differenziato 36-38° / 4 taglienti

DIN 6527 / Nano T-Red coated / Unequal helix 36-38° / 4 flutes



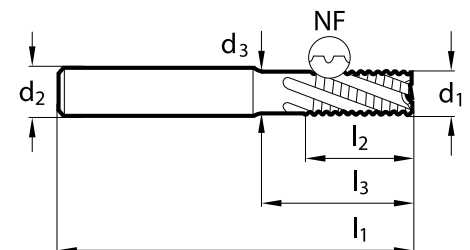
d1 mm	d2 mm	d3 mm	l ₁	l ₂	l ₃	Z	€ pezzo/each	
							HA	HB
h10								
3.00	6.00	2.70	57.00	8.00	15.00	4	26,91	28,40
3.50	6.00	3.20	57.00	10.00	15.00	4	28,01	29,50
4.00	6.00	3.70	57.00	11.00	18.00	4	25,46	26,91
4.50	6.00	4.20	57.00	11.00	18.00	4	28,01	29,85
5.00	6.00	4.70	57.00	13.00	18.00	4	25,46	26,91
5.50	6.00	5.20	57.00	13.00	18.00	4	28,01	29,85
6.00	6.00	5.50	57.00	13.00	21.00	4	30,97	33,19
6.50	8.00	6.00	63.00	16.00	27.00	4	34,68	36,13
7.00	8.00	6.50	63.00	16.00	27.00	4	37,62	39,09
7.50	8.00	7.00	63.00	19.00	27.00	4	41,31	42,76
8.00	8.00	7.50	63.00	19.00	27.00	4	42,76	45,00
8.50	10.00	8.00	72.00	19.00	32.00	4	47,19	49,43
9.00	10.00	8.50	72.00	19.00	32.00	4	54,57	56,81
9.50	10.00	9.00	72.00	22.00	32.00	4	59,75	61,94
10.00	10.00	9.20	72.00	22.00	32.00	4	64,89	67,13
11.00	12.00	10.20	83.00	26.00	38.00	4	74,50	76,72
12.00	12.00	11.20	83.00	26.00	38.00	4	82,62	85,56
14.00	14.00	13.20	83.00	26.00	38.00	4	115,07	118,75
16.00	16.00	15.00	92.00	32.00	44.00	4	143,07	146,76
18.00	18.00	17.00	92.00	32.00	44.00	4	182,89	186,60
20.00	20.00	19.00	104.00	38.00	54.00	4	222,73	225,72
25.00	25.00	23.50	121.00	45.00	65.00	4	352,53	359,90

9504^{HA} / 9505^{HB} Fresa in Metallo Duro VA

Solid Carbide end Mills for Stainless Steel

DIN 6527 / Sgrossatura fine / Rivestita T-Red / Elica a passo differenziato 36-38° / 4 taglienti

DIN 6527 / Nano T-Red coated / Unequal helix 36-38° / 4 flutes



d1 mm	d2 mm	d3 mm	l ₁	l ₂	l ₃	Z	€ pezzo/each	
							HA	HB
h10								
5.00	6.00	4.50	57.00	13.00	18.00	4	44,02	48,69
6.00	6.00	5.50	57.00	13.00	21.00	4	54,34	59,00
7.00	8.00	6.50	63.00	16.00	27.00	4	60,96	65,63
8.00	8.00	7.50	63.00	19.00	27.00	4	64,56	71,56
9.00	10.00	8.50	72.00	19.00	32.00	4	70,44	77,44
10.00	10.00	9.20	72.00	22.00	32.00	4	74,87	81,88
12.00	12.00	11.20	83.00	26.00	38.00	4	88,74	98,07
14.00	14.00	13.20	83.00	26.00	38.00	4	118,24	127,58
16.00	16.00	15.00	92.00	32.00	44.00	4	143,96	155,63
18.00	20.00	17.00	92.00	32.00	44.00	4	185,27	196,94
20.00	20.00	19.00	104.00	38.00	54.00	4	223,50	237,51
25.00	25.00	23.50	121.00	45.00	65.00	4	376,15	376,15

78

The image features the number '78' in a large, bold, sans-serif font. The digits are filled with a multi-colored gradient, transitioning from a dark teal at the bottom to a bright yellow at the top. The background is a light gray wireframe globe, with lines of latitude and longitude. The entire composition is set against a white background, which is framed by a thick green border. In the bottom-left corner, there is a solid green triangular shape pointing towards the center.

Frese M42 e ASP

Milling Cutters
HSCO/M42

9390 Fresa M42

Milling cutters HSCO/M42

Rivestita TiAIN / 2 taglienti

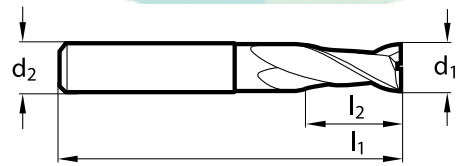
TiAIN coated / 2 flutes



M42

Z2

d1 mm		d2 mm	l ₁	l ₂	Z	€ pezzo/each
1.00	h10	6.00	47.00	2.00	2	16,30
1.50	h10	6.00	47.00	3.00	2	14,60
2.00	e8	6.00	48.00	4.00	2	10,30
2.50	e8	6.00	49.00	5.00	2	10,30
3.00	e8	6.00	49.00	5.00	2	8,60
3.50	h10	6.00	50.00	6.00	2	10,60
4.00	e8	6.00	51.00	7.00	2	8,60
4.50	h10	6.00	51.00	7.00	2	10,00
5.00	e8	6.00	52.00	8.00	2	8,70
5.50	h10	6.00	52.00	8.00	2	10,60
6.00	e8	6.00	52.00	8.00	2	8,70
6.50	h10	10.00	60.00	10.00	2	12,90
7.00	e8	10.00	60.00	10.00	2	12,90
7.50	h10	10.00	60.00	10.00	2	13,60
8.00	e8	10.00	61.00	11.00	2	12,10
8.50	h10	10.00	61.00	11.00	2	15,10
9.00	h10	10.00	61.00	11.00	2	14,20
9.50	h10	10.00	61.00	11.00	2	15,10
10.00	e8	10.00	63.00	13.00	2	12,80
10.50	h10	12.00	70.00	13.00	2	15,70
11.00	h10	12.00	70.00	13.00	2	17,20
11.50	h10	12.00	70.00	13.00	2	18,40
12.00	e8	12.00	73.00	16.00	2	15,80
13.00	h10	12.00	73.00	16.00	2	19,50
14.00	e8	12.00	73.00	16.00	2	19,70
15.00	h10	12.00	73.00	16.00	2	22,10
16.00	e8	16.00	79.00	19.00	2	24,30
17.00	h10	16.00	79.00	19.00	2	27,20
18.00	e8	16.00	79.00	19.00	2	28,60
19.00	h10	16.00	79.00	19.00	2	31,70
20.00	e8	20.00	88.00	22.00	2	33,70



9395 Fresa M42

Milling cutters HSCO/M42

Rivestita TiAIN / 3 taglienti

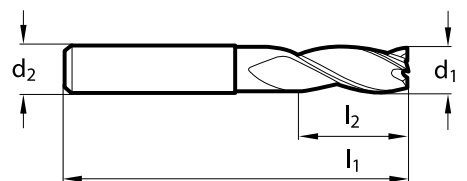
TiAIN coated / 3 flutes



M42

Z3

d1 mm		d2 mm	l ₁	l ₂	Z	€ pezzo/each
3.00	e8	6.00	52.00	8.00	3	10,60
4.00	e8	6.00	55.00	11.00	3	10,60
5.00	e8	6.00	57.00	13.00	3	10,60
6.00	e8	6.00	57.00	13.00	3	10,60
7.00	e8	10.00	66.00	16.00	3	15,30
8.00	e8	10.00	69.00	19.00	3	14,40
9.00	h10	10.00	69.00	19.00	3	15,30
10.00	e8	10.00	72.00	22.00	3	14,00
12.00	e8	12.00	83.00	26.00	3	18,20



9395

d1 mm		d2 mm	l ₁	l ₂	Z	€ pezzo/each
14.00	e8	12.00	83.00	26.00	3	24,90
15.00	h10	12.00	83.00	26.00	3	25,70
16.00	e8	16.00	92.00	32.00	3	24,90
18.00	e8	16.00	92.00	32.00	3	32,80
20.00	e8	20.00	104.00	38.00	3	41,00

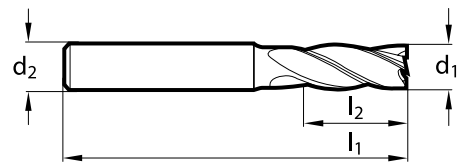
9400 Fresa M42 Milling cutters HSCO/M42

Rivestita TiAlN / 4 taglienti
TiAlN coated / 4 flutes

d1 mm	d2 mm	l ₁	l ₂	Z	€ pezzo/each
2.00	6.00	51.00	7.00	4	13,60
3.00	6.00	52.00	8.00	4	10,00
4.00	6.00	55.00	11.00	4	10,00
5.00	6.00	57.00	13.00	4	10,00
6.00	6.00	57.00	13.00	4	10,00
7.00	10.00	66.00	16.00	4	14,20
8.00	10.00	69.00	19.00	4	14,20
9.00	10.00	69.00	19.00	4	14,20
10.00	10.00	72.00	22.00	4	13,60
12.00	12.00	83.00	26.00	4	17,80
14.00	12.00	83.00	26.00	4	26,80
16.00	16.00	92.00	32.00	4	24,30
18.00	16.00	92.00	32.00	4	32,50
20.00	20.00	104.00	38.00	4	38,50
25.00	25.00	121.00	45.00	6	65,30



M42 Z4



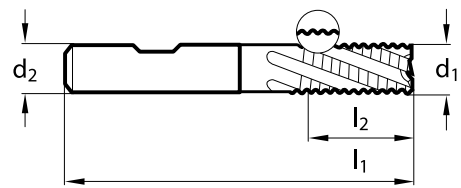
9405 Fresa ASP a Sgrossare Milling cutters roughing PM Co-alloyed HSSE

Rivestita TiAlN / 4 taglienti
TiAlN coated / 4 flutes

d1 mm	d2 mm	l ₁	l ₂	Z	€ pezzo/each
6.00	6.00	57.00	13.00	4	22,70
7.00	10.00	66.00	16.00	4	32,10
8.00	10.00	69.00	19.00	4	27,50
9.00	10.00	69.00	19.00	4	36,30
10.00	10.00	72.00	22.00	4	28,70
12.00	12.00	83.00	26.00	4	33,20
14.00	12.00	83.00	26.00	4	46,10
16.00	16.00	92.00	32.00	4	55,80
18.00	16.00	92.00	32.00	4	66,30
20.00	20.00	104.00	38.00	4	67,10
25.00	25.00	121.00	45.00	5	94,30



ASP Z4



82

Frese a Filettare in Metallo Duro

**Thread Milling
Cutters Carbide**

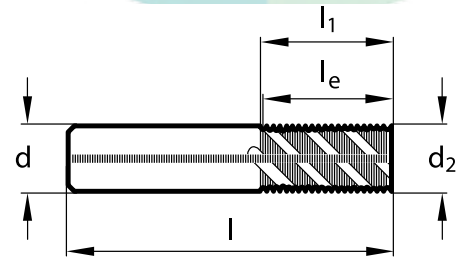
9330 Fresa a Filettare in Metallo Duro

Thread Milling Cutters Carbide

Filettatura Iso metrica DIN 13 / Gambo cilindrico DIN 6535 HA / Passaggio interno lubrorefrigerante
 For Iso metric DIN 13 / Straight shank DIN 6535 HA / With oil feed



P mm	d2 mm	d	l	l _e	l ₁	Z	€ pezzo/each
0.80	4.00	6.00	75.00	12.70	13.10	3	170,20
1.00	4.80	6.00	75.00	16.87	17.37	3	170,20
1.00	6.00	6.00	75.00	20.87	21.37	3	168,00
1.00	8.00	8.00	75.00	22.87	23.37	3	192,80
1.00	10.00	10.00	80.00	25.87	26.37	4	234,50
1.25	6.00	6.00	75.00	21.09	21.71	3	170,20
1.50	8.00	8.00	75.00	23.80	24.55	3	187,10
1.50	10.00	10.00	80.00	26.80	27.55	4	224,30
1.50	12.00	12.00	85.00	31.30	32.05	4	314,50
1.75	8.00	8.00	75.00	24.27	25.15	3	187,10
2.00	12.00	12.00	85.00	31.74	32.74	4	301,00



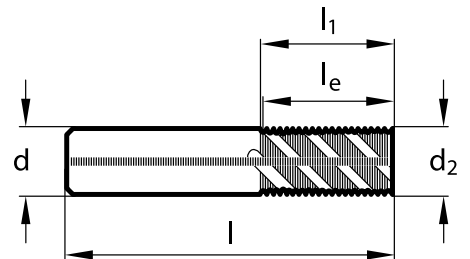
9331 Fresa a Filettare in Metallo Duro

Thread Milling Cutters Carbide

Filettatura GAS cilindrica / Gambo cilindrico DIN 6535 HA / Passaggio interno lubrorefrigerante
 For BSP - Threads / Straight shank DIN 6535 HA / With oil feed

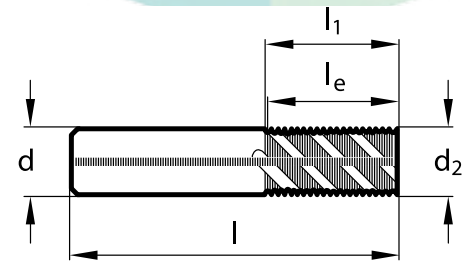


Flix1"	d2 mm	d mm	l	l _e	l ₁	Z	€ pezzo/each
28.00	6.00	6.00	75.00	20.81	21.27	3	170,20
19.00	12.00	12.00	85.00	30.68	31.35	4	315,70
14.00	14.00	14.00	100.00	36.19	37.09	5	376,50
14.00	16.00	16.00	100.00	39.81	40.72	5	432,90



9332 Fresa a Filettare in Metallo Duro Thread Milling Cutters Carbide

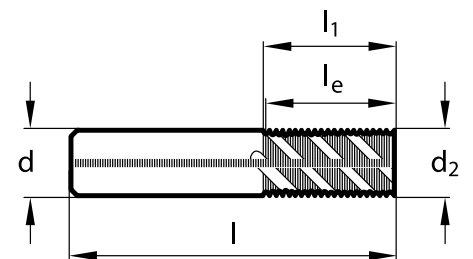
Filettatura UN / Per filettatura interna / Passaggio interno lubrorefrigerante
UN Threads / With oil feed / For internal threads



Flix1"	d2 mm	d mm	l	l _e	l ₁	Z	€ pezzo/each
28.00	4.00	6.00	75.00	12.58	13.03	3	170,20
20.00	8.00	8.00	75.00	22.69	23.33	3	192,80
18.00	10.00	10.00	80.00	26.63	27.33	4	234,50
16.00	12.00	12.00	85.00	31.54	32.34	4	315,70
14.00	16.00	16.00	100.00	39.68	40.58	5	432,90
12.00	16.00	16.00	100.00	39.94	41.00	5	432,90
9.00	16.00	16.00	100.00	39.14	40.55	5	430,70
8.00	20.00	20.00	105.00	44.03	45.62	5	518,60

9333 Fresa a Filettare in Metallo Duro Thread Milling Cutters Carbide

Filettatura NPT / Per filettatura interna ed esterna / Passaggio interno lubrorefrigerante
NPT Threads / With oil feed / For internal and external threads



Flix1"	d2 mm	d mm	l	l _e	l ₁	Z	€ pezzo/each
28.00	6.00	6.00	75.00	20.81	21.27	3	222,10
18.00	12.00	12.00	85.00	30.68	31.35	4	305,50
14.00	14.00	14.00	100.00	36.19	37.09	5	563,70
14.00	16.00	16.00	100.00	39.81	40.72	5	702,30

86



Maschi

**Machine
Taps**

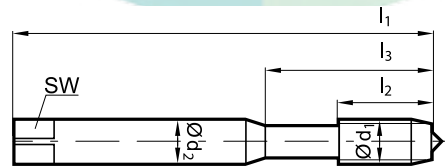
9600 Maschio a Macchina HSS-E DIN 371

Machine Taps HSS-E DIN 371 Form B

Tolleranza ISO 2 6H / Tipo N / Per fori passanti / Imbocco corretto / 3 x D
 Metric Threads Tolerance ISO 2 6 H / For through holes / 3 x D



Ø D	P mm	l ₁	l ₂	l ₃	Ø d2 mm	SW	Preforo	€ pezzo/each
M 3	0.50	56.00	11.00	18.00	3.50	2.70	2.50	11,50
M 4	0.70	63.00	13.00	21.00	4.50	3.40	3.30	11,50
M 5	0.80	70.00	15.00	25.00	6.00	4.90	4.20	11,80
M 6	1.00	80.00	17.00	30.00	6.00	4.90	5.00	11,80
M 8	1.25	90.00	20.00	35.00	8.00	6.20	6.80	15,60
M 10	1.50	100.00	22.00	39.00	10.00	8.00	8.50	18,60



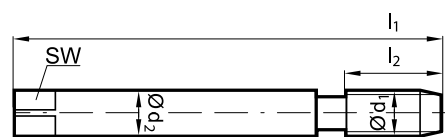
9610 Maschio a Macchina HSS-E DIN 376

Machine Taps HSS-E DIN 376 Form B

Tolleranza ISO 2 6H / Tipo N / Per fori passanti / Imbocco corretto / 3 x D
 Metric Threads Tolerance ISO 2 6 H / For through holes / 3 x D



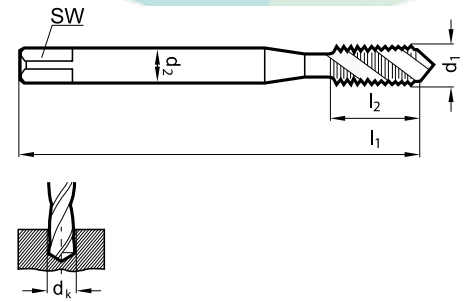
Ø D	P mm	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
M 12	1.75	110.00	24.00	9.00	7.00	10.20	25,50
M 14	2.00	110.00	26.00	11.00	9.00	12.00	30,80
M 16	2.00	110.00	27.00	12.00	9.00	14.00	38,50
M 18	2.50	125.00	30.00	14.00	11.00	15.50	51,40
M 20	2.50	140.00	32.00	16.00	12.00	17.50	61,00



9820 Maschio a Macchina HSS-E DIN 371 Vaporizzato

Machine Taps HSS-E DIN 371 Form B Steamed

Tolleranza ISO 2 6H / Tipo N / Per fori passanti / Imbocco corretto / 3 x D
Metric Threads Tolerance ISO 2 6 H / For through holes / 3 x D

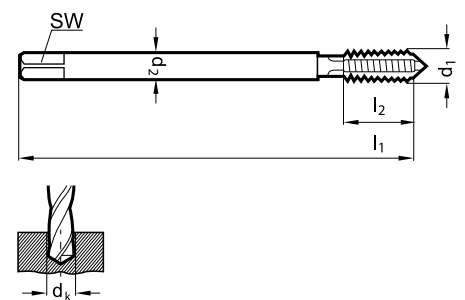


$\varnothing D$	P mm	l_1	l_2	$\varnothing d2$ mm	SW	Preforo	€ pezzo/each
M 3	0.50	56.00	10.00	3.50	2.70	2.50	13,70
M 4	0.70	63.00	12.00	4.50	3.40	3.30	13,70
M 5	0.80	70.00	14.00	6.00	4.90	4.20	13,70
M 6	1.00	80.00	16.00	6.00	4.90	5.00	14,60
M 8	1.25	90.00	18.00	8.00	6.20	6.80	18,80
M 10	1.50	100.00	20.00	10.00	8.00	8.50	23,20

9830 Maschio a macchina HSS-E DIN 376

Machine Taps HSS-E DIN 376 Form B Steamed

Tolleranza ISO 2 6H / Tipo N / Per fori passanti / Imbocco corretto / 3 x D
Metric Threads Tolerance ISO 2 6 H / For through holes / 3 x D



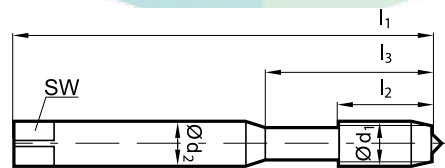
$\varnothing D$	P mm	l_1	l_2	$\varnothing d2$ mm	SW	Preforo	€ pezzo/each
M 12	1.75	110.00	24.00	9.00	7.00	10.20	30,80
M 14	2.00	110.00	26.00	11.00	9.00	12.00	37,40
M 16	2.00	110.00	27.00	12.00	9.00	14.00	40,10
M 18	2.50	125.00	30.00	14.00	11.00	15.50	62,70
M 20	2.50	140.00	32.00	16.00	12.00	17.50	73,40

9600T Maschio a Macchina HSS-E DIN 371 / riv. TiN Machine Taps HSS-E DIN 371 Form B / TiN Coated

Tolleranza ISO 2 6H / Tipo N / Per fori passanti / Imbocco corretto / 3 x D
Metric Threads Tolerance ISO 2 6H / For through holes / 3 x D



Ø D	P mm	l ₁	l ₂	l ₃	Ø d2 mm	SW	Preforo	€ pezzo/each
M 3	0.50	56.00	11.00	18.00	3.50	2.70	2.50	15,50
M 4	0.70	63.00	13.00	21.00	4.50	3.40	3.30	15,50
M 5	0.80	70.00	15.00	25.00	6.00	4.90	4.20	17,40
M 6	1.00	80.00	17.00	30.00	6.00	4.90	5.00	19,00
M 8	1.25	90.00	20.00	35.00	8.00	6.20	6.80	23,70
M 10	1.50	100.00	22.00	39.00	10.00	8.00	8.50	28,50

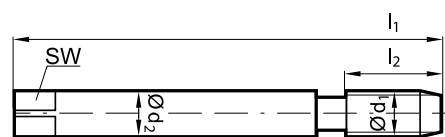


9610T Maschio a Macchina HSS-E DIN 376 / riv. TiN Machine Taps HSS-E DIN 376 Form B / TiN Coated

Tolleranza ISO 2 6H / Tipo N / Per fori passanti / Imbocco corretto / 3 x D
Metric Threads Tolerance ISO 2 6H / For through holes / 3 x D



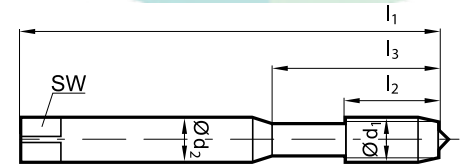
Ø D	P mm	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
M 12	1.75	110.00	24.00	9.00	7.00	10.20	37,50
M 14	2.00	110.00	26.00	11.00	9.00	12.00	44,10
M 16	2.00	110.00	27.00	12.00	9.00	14.00	52,00
M 18	2.50	125.00	30.00	14.00	11.00	15.50	66,70
M 20	2.50	140.00	32.00	16.00	12.00	17.50	80,20



9620 Maschio a Macchina HSS-E DIN 371

Machine Taps HSS-E DIN 371

Tolleranza ISO 2 6H / Tipo NR15 / Per fori ciechi / Elica 15° / 3 x D
Metric Threads Tolerance ISO 2 6H / For blind holes / Right-hand 15° / 3 x D

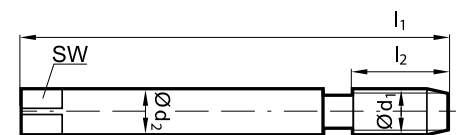


Ø D	P mm	l ₁	l ₂	l ₃	Ø d2 mm	SW	Preforo	€ pezzo/each
M 3	0.50	56.00	11.00	18.00	3.50	2.70	2.50	11,50
M 4	0.70	63.00	13.00	21.00	4.50	3.40	3.30	11,50
M 5	0.80	70.00	15.00	25.00	6.00	4.90	4.20	11,80
M 6	1.00	80.00	17.00	30.00	6.00	4.90	5.00	11,80
M 8	1.25	90.00	20.00	35.00	8.00	6.20	6.80	15,60
M 10	1.50	100.00	22.00	39.00	10.00	8.00	8.50	18,60

9630 Maschio a Macchina HSS-E DIN 376

Machine Taps HSS-E DIN 376

Tolleranza ISO 2 6H / Tipo NR15 / Per fori ciechi / Elica 15° / 3 x D
Metric Threads Tolerance ISO 2 6H / For blind holes / Right-hand 15° / 3 x D



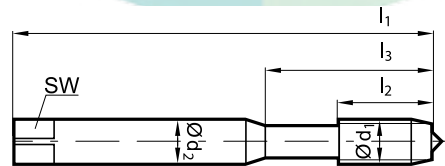
Ø D	P mm	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
M 12	1.75	110.00	24.00	9.00	7.00	10.20	25,50
M 14	2.00	110.00	26.00	11.00	9.00	12.00	30,80
M 16	2.00	110.00	27.00	12.00	9.00	14.00	38,50
M 18	2.50	125.00	30.00	14.00	11.00	15.50	61,00
M 20	2.50	140.00	32.00	16.00	12.00	17.50	15,50

9620T Maschio a Macchina HSS-E DIN 371 / riv. TiN Machine Taps HSS-E DIN 371 / TiN Coated

Tolleranza ISO 2 6H / Tipo NR15 / Per fori ciechi / Elica 15° / 3 x D
Metric Threads Tolerance ISO 2 6H / For blind holes / Right-hand 15° / 3 x D



Ø D	P mm	l ₁	l ₂	l ₃	Ø d2 mm	SW	Preforo	€ pezzo/each
M 3	0.50	56.00	11.00	18.00	3.50	2.70	2.50	15,50
M 4	0.70	63.00	13.00	21.00	4.50	3.40	3.30	15,50
M 5	0.80	70.00	15.00	25.00	6.00	4.90	4.20	17,40
M 6	1.00	80.00	17.00	30.00	6.00	4.90	5.00	19,00
M 8	1.25	90.00	20.00	35.00	8.00	6.20	6.80	23,70
M 10	1.50	100.00	22.00	39.00	10.00	8.00	8.50	28,50

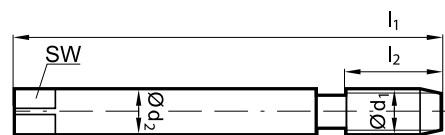


9630T Maschio a Macchina HSS-E DIN 376 / riv. TiN Machine Taps HSS-E DIN 376 / TiN Coated

Tolleranza ISO 2 6H / Tipo NR15 / Per fori ciechi / Elica 15° / 3 x D
Metric Threads Tolerance ISO 2 6H / For blind holes / Right-hand 15° / 3 x D



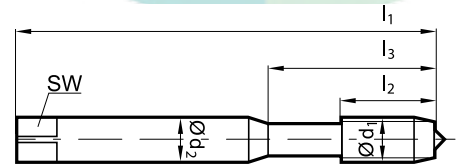
Ø D	P mm	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
M 12	1.75	110.00	24.00	9.00	7.00	10.20	37,50
M 14	2.00	110.00	26.00	11.00	9.00	12.00	44,10
M 16	2.00	110.00	27.00	12.00	9.00	14.00	52,00
M 20	2.50	140.00	32.00	16.00	12.00	17.50	80,20



9640 Maschio a Macchina HSS-E DIN 371

Machine Taps HSS-E DIN 371

Tolleranza ISO 2 6H / Tipo NR40 / Per fori ciechi / Elica 40° / 3 x D
 Metric Threads Tolerance ISO 2 6H / For blind holes / Right-hand 40° / 3 x D

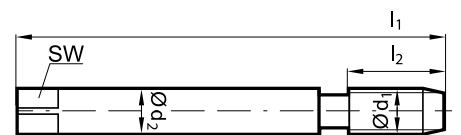


Ø D	P mm	l ₁	l ₂	l ₃	Ø d2 mm	SW	Preforo	€ pezzo/each
M 3	0.50	56.00	11.00	18.00	3.50	2.70	2.50	11,50
M 4	0.70	63.00	13.00	21.00	4.50	3.40	3.30	11,50
M 5	0.80	70.00	15.00	25.00	6.00	4.90	4.20	11,80
M 6	1.00	80.00	17.00	30.00	6.00	4.90	5.00	11,80
M 8	1.25	90.00	20.00	35.00	8.00	6.20	6.80	15,60
M 10	1.50	100.00	22.00	39.00	10.00	8.00	8.50	18,60

9650 Maschio a Macchina HSS-E DIN 376

Machine Taps HSS-E DIN 376

Tolleranza ISO 2 6H / Tipo NR40 / Per fori ciechi / Elica 40° / 3 x D
 Metric Threads Tolerance ISO 2 6H / For blind holes / Right-hand 40° / 3 x D



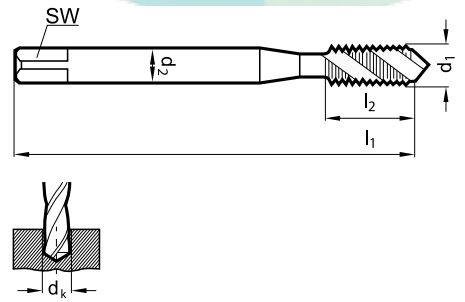
Ø D	P mm	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
M 12	1.75	110.00	24.00	9.00	7.00	10.20	25,50
M 14	2.00	110.00	26.00	11.00	9.00	12.00	30,80
M 16	2.00	110.00	27.00	12.00	9.00	14.00	38,50
M 18	2.50	125.00	30.00	14.00	11.00	15.50	51,40
M 20	2.50	140.00	32.00	16.00	12.00	17.50	61,00

9800 Maschio a Macchina HSS-E DIN 371 Vaporizzato Machine Taps HSS-E DIN 371 Steamed

Tolleranza ISO 2 6H / Tipo NR40 / Per fori ciechi / Elica 40° / 3 x D
Metric Threads Tolerance ISO 2 6H / For blind holes / Right-hand 40° / 3 x D



Ø D	P mm	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
M 3	0.50	56.00	6.00	3.50	2.70	2.50	13,70
M 4	0.70	63.00	7.50	4.50	3.40	3.30	13,70
M 5	0.80	70.00	8.50	6.00	4.90	4.20	13,70
M 6	1.00	80.00	11.00	6.00	4.90	5.00	14,60
M 8	1.25	90.00	14.00	8.00	6.20	6.80	18,80
M 10	1.50	100.00	16.00	10.00	8.00	8.50	23,20

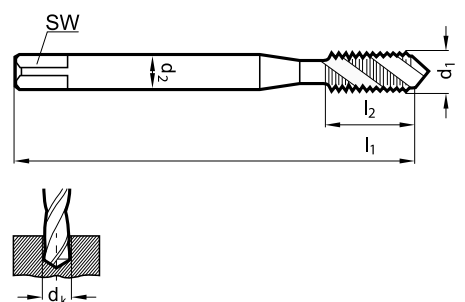


9810 Maschio a Macchina HSS-E DIN 376 Vaporizzato Machine Taps HSS-E DIN 376 Steamed

Tolleranza ISO 2 6H / Tipo NR40 / Per fori ciechi / Elica 40° / 3 x D
Metric Threads Tolerance ISO 2 6H / For blind holes / Right-hand 40° / 3 x D

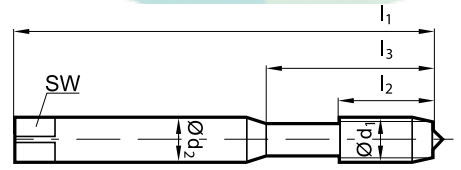


Ø D	P mm	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
M 12	1.75	110.00	18.50	9.00	7.00	10.20	30,80
M 14	2.00	110.00	20.00	11.00	9.00	12.00	37,40
M 16	2.00	110.00	20.00	12.00	9.00	14.00	40,10
M 18	2.50	125.00	25.00	14.00	11.00	15.50	62,70
M 20	2.50	140.00	25.00	16.00	12.00	17.50	73,40



9640T Maschio a Macchina HSS-E DIN 371 / riv. TiN Machine Taps HSS-E DIN 371 / TiN Coated

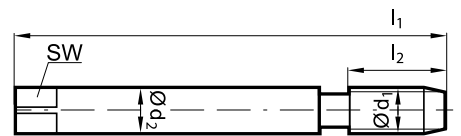
Tolleranza ISO 2 6H / Tipo NR40 / Per fori ciechi / Elica 40° / 3 x D
Metric Threads Tolerance ISO 2 6H / For blind holes / Right-hand 40° / 3 x D



Ø D	P mm	l ₁	l ₂	l ₃	Ø d2 mm	SW	Preforo	€ pezzo/each
M 3	0.50	56.00	11.00	18.00	3.50	2.70	2.50	15,50
M 4	0.70	63.00	13.00	21.00	4.50	3.40	3.30	15,50
M 5	0.80	70.00	15.00	25.00	6.00	4.90	4.20	17,40
M 6	1.00	80.00	17.00	30.00	6.00	4.90	5.00	19,00
M 8	1.25	90.00	20.00	35.00	8.00	6.20	6.80	23,70
M 10	1.50	100.00	22.00	39.00	10.00	8.00	8.50	28,50

9650T Maschio a Macchina HSS-E DIN 376 / riv. TiN Machine Taps HSS-E DIN 376 / TiN Coated

Tolleranza ISO 2 6H / Tipo NR40 / Per fori ciechi / Elica 40° / 3 x D
Metric Threads Tolerance ISO 2 6H / For blind holes / Right-hand 40° / 3 x D



Ø D	P mm	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
M 12	1.75	110.00	24.00	9.00	7.00	10.20	37,50
M 14	2.00	110.00	26.00	11.00	9.00	12.00	44,10
M 16	2.00	110.00	27.00	12.00	9.00	14.00	52,00
M 18	2.50	125.00	30.00	14.00	11.00	15.50	66,70
M 20	2.50	140.00	32.00	16.00	12.00	17.50	80,20

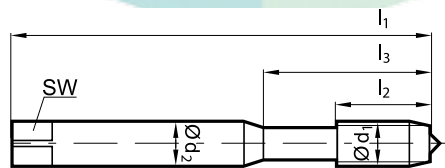
9660 Maschio a Macchina HSS-E DIN 371 / Nitruato

Machine Taps HSS-E DIN 371 Form B Nitrided VA

Tolleranza ISO 2 6H / Tipo VA / Per fori passanti / Imbocco corretto / 3 x D
 Metric Threads Tolerance ISO 2 6H / For through holes / 3 x D



Ø D	P mm	l ₁	l ₂	l ₃	Ø d2 mm	SW	Preforo	€ pezzo/each
M 3	0.50	56.00	11.00	18.00	3.50	2.70	2.50	13,30
M 4	0.70	63.00	13.00	21.00	4.50	3.40	3.30	13,30
M 5	0.80	70.00	15.00	25.00	6.00	4.90	4.20	13,80
M 6	1.00	80.00	17.00	30.00	6.00	4.90	5.00	13,80
M 8	1.25	90.00	20.00	35.00	8.00	6.20	6.80	17,80
M 10	1.50	100.00	22.00	39.00	10.00	8.00	8.50	21,50



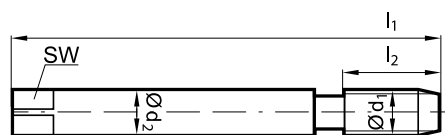
9670 Maschio a Macchina HSS-E DIN 376 / Nitruato

Machine Taps HSS-E DIN 376 Form B Nitrided VA

Tolleranza ISO 2 6H / Tipo VA / Per fori passanti / Imbocco corretto / 3 x D
 Metric Threads Tolerance ISO 2 6H / For through holes / 3 x D

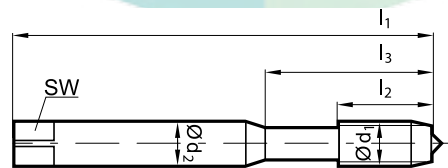


Ø D	P mm	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
M 12	1.75	110.00	24.00	9.00	7.00	10.20	28,60
M 14	2.00	110.00	26.00	11.00	9.00	12.00	31,70
M 16	2.00	110.00	27.00	12.00	9.00	14.00	44,00
M 18	2.50	125.00	30.00	14.00	11.00	15.50	58,30
M 20	2.50	140.00	32.00	16.00	12.00	17.50	67,10



1070 Maschio a Macchina HSS-E DIN 371 / Riv. TiN Machine Taps HSS-E DIN 371 Form B / TiN Coated

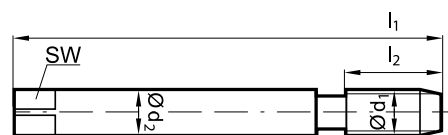
Tolleranza ISO 2 6H / Tipo VA / Per fori passanti / Imbocco corretto / 3 x D
Metric Threads Tolerance ISO 2 6H / For through holes / 3 x D



Ø D	P mm	l ₁	l ₂	l ₃	Ø d2 mm	SW	Preforo	€ pezzo/each
M 3	0.50	56.00	11.00	18.00	3.50	2.70	2.50	17,00
M 4	0.70	63.00	13.00	21.00	4.50	3.40	3.30	17,00
M 5	0.80	70.00	15.00	25.00	6.00	4.90	4.20	19,20
M 6	1.00	80.00	17.00	30.00	6.00	4.90	5.00	20,50
M 8	1.25	90.00	20.00	35.00	8.00	6.20	6.80	25,70
M 10	1.50	100.00	22.00	39.00	10.00	8.00	8.50	31,00

1090 Maschio a Macchina HSS-E DIN 376 / riv. TiN Machine Taps HSS-E DIN 376 Form B / TiN Coated

Tolleranza ISO 2 6H / Tipo VA / Per fori passanti / Imbocco corretto / 3 x D
Metric Threads Tolerance ISO 2 6H / For through holes / 3 x D



Ø D	P mm	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
M 12	1.75	110.00	24.00	9.00	7.00	10.20	40,80
M 14	2.00	110.00	26.00	11.00	9.00	12.00	45,10
M 16	2.00	110.00	27.00	12.00	9.00	14.00	57,40
M 18	2.50	125.00	30.00	14.00	11.00	15.50	73,70
M 20	2.50	140.00	32.00	16.00	12.00	17.50	86,00

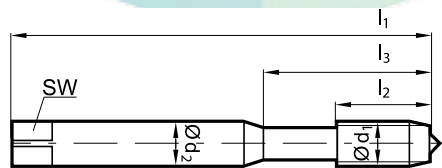
9680 Maschio a macchina HSS-E DIN 371

Machine Taps HSS-E DIN 371 VA

Tolleranza ISO 2 6H / Tipo VA R40 / Per fori ciechi / Elica 40° / 3 x D
 Metric Threads Tolerance ISO 2 6H / For blind holes / Right-hand 40° / 3 x D



Ø D	P mm	l ₁	l ₂	l ₃	Ø d2 mm	SW	Preforo	€ pezzo/each
M 3	0.50	56.00	11.00	18.00	3.50	2.70	2.50	13,30
M 4	0.70	63.00	13.00	21.00	4.50	3.40	3.30	13,30
M 5	0.80	70.00	15.00	25.00	6.00	4.90	4.20	13,80
M 6	1.00	80.00	17.00	30.00	6.00	4.90	5.00	13,80
M 8	1.25	90.00	20.00	35.00	8.00	6.20	6.80	17,80
M 10	1.50	100.00	22.00	39.00	10.00	8.00	8.50	21,50



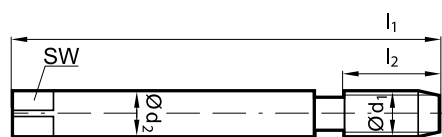
9690 Maschio a Macchina HSS-E DIN 376

Machine Taps HSS-E DIN 376 VA

Tolleranza ISO 2 6H / Tipo VA R40 / Per fori ciechi / Elica 40° / 3 x D
 Metric Threads Tolerance ISO 2 6H / For blind holes / Right-hand 40° / 3 x D



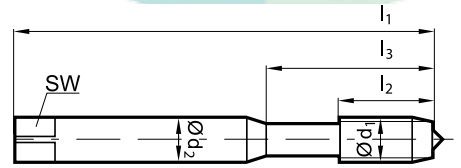
Ø D	P mm	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
M 12	1.75	110.00	24.00	9.00	7.00	10.20	28,60
M 14	2.00	110.00	26.00	11.00	9.00	12.00	31,70
M 16	2.00	110.00	27.00	12.00	9.00	14.00	44,00
M 18	2.50	125.00	30.00	14.00	11.00	15.50	58,30
M 20	2.50	140.00	32.00	16.00	12.00	17.50	67,10



9680T Maschio a Macchina HSS-E DIN 371 / riv. TiN Machine Taps HSS-E DIN 371 / TiN Coated

Tolleranza ISO 2 6H / Tipo VA R40 / Per fori ciechi / Elica 40° / 3 x D

Metric Threads Tolerance ISO 2 6H / For blind holes / Right-hand 40° / 3 x D

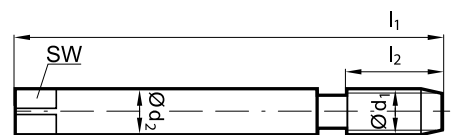


Ø D	P mm	l ₁	l ₂	l ₃	Ø d2 mm	SW	Preforo	€ pezzo/each
M 3	0.50	56.00	11.00	18.00	3.50	2.70	2.50	17,00
M 4	0.70	63.00	13.00	21.00	4.50	3.40	3.30	17,00
M 5	0.80	70.00	15.00	25.00	6.00	4.90	4.20	19,20
M 6	1.00	80.00	17.00	30.00	6.00	4.90	5.00	20,50
M 8	1.25	90.00	20.00	35.00	8.00	6.20	6.80	25,70
M 10	1.50	100.00	22.00	39.00	10.00	8.00	8.50	31,00

9690T Maschio a Macchina HSS-E DIN 376 / riv. TiN Machine Taps HSS-E DIN 376 / TiN Coated

Tolleranza ISO 2 6H / Tipo VA R40 / Per fori ciechi / Elica 40° / 3 x D

Metric Threads Tolerance ISO 2 6H / For blind holes / 3 x D



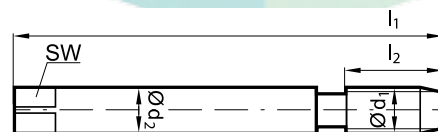
Ø D	P mm	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
M 12	1.75	110.00	24.00	9.00	7.00	10.20	40,80
M 14	2.00	110.00	26.00	11.00	9.00	12.00	45,10
M 16	2.00	110.00	27.00	12.00	9.00	14.00	57,40
M 18	2.50	125.00	30.00	14.00	11.00	15.50	73,70
M 20	2.50	140.00	32.00	16.00	12.00	17.50	86,00

9720 Maschio a Macchina passo fine HSS-E DIN 374 Machine Taps HSS-E DIN 374 Form B

Tolleranza ISO 2 6H / tipo N / per fori passanti / imbocco corretto / 3 x D
Metric fine Threads Tolerance ISO 2 6H / For through holes / 3 x D



Ø D	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
M 4x0.50	80.00	13.00	3.50	2.70	4.50	19,50
M 5x0.50	70.00	11.00	3.50	2.70	4.50	19,80
M 6x0.75	80.00	13.00	4.50	3.40	5.20	19,40
M 8x1.00	90.00	17.00	6.00	4.90	7.00	21,30
M 10x1.00	90.00	18.00	7.00	5.50	9.00	25,00
M 10x1.25	100.00	22.00	7.00	5.50	8.80	25,80
M 12x1.50	100.00	22.00	9.00	7.00	10.50	28,80
M 14x1.50	100.00	22.00	11.00	9.00	12.50	34,20
M 16x1.50	100.00	22.00	12.00	9.00	14.50	44,70
M 18x1.00	110.00	25.00	14.00	11.00	16.50	61,60
M 20x1.00	125.00	25.00	16.00	12.00	18.50	67,10

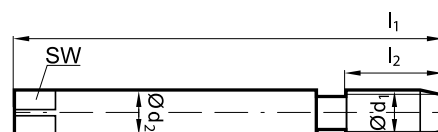


9730 Maschio a Macchina passo fine HSS-E DIN 374 Nitruato Machine Taps HSS-E DIN 374 Form B Nitrided

Tolleranza ISO 2 6H / Tipo VA / Per fori passanti / Imbocco corretto / 3 x D
Metric Fine Threads Tolerance ISO 2 6H / For through holes / 3 x D



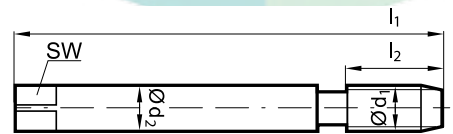
Ø D	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
M 6x0.75	80.00	13.00	4.50	3.40	5.20	21,90
M 8x1.00	90.00	17.00	6.00	4.90	7.00	23,70
M 10x7.50	90.00	18.00	7.00	5.50	9.20	30,10
M 10x1.00	90.00	18.00	7.00	5.50	9.00	27,90
M 12x1.00	100.00	18.00	9.00	7.00	11.00	32,20
M 12x1.50	100.00	22.00	9.00	7.00	10.50	30,90
M 16x1.50	100.00	22.00	12.00	9.00	14.50	48,50
M 20x1.50	125.00	35.00	16.00	12.00	18.50	69,80



9740 Maschio a Macchina passo fine HSS-E DIN 374

Machine Taps HSS-E DIN 374

Tolleranza ISO 2 6H / Tipo N R5 / Per fori ciechi / Elica 35° / 3 x D
 Metric Fine Threads Tolerance ISO 2 6H / For blind holes / Right-hand 35° / 3 x D

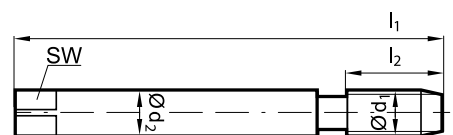


Ø D	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
M 4x0.50	80.00	13.00	3.50	2.70	4.50	20,80
M 5x0.50	70.00	11.00	3.50	2.70	4.50	21,10
M 6x0.75	80.00	13.00	4.50	3.40	5.20	20,80
M 8x1.00	90.00	17.00	6.00	4.90	7.00	22,90
M 10x1.00	90.00	18.00	7.00	5.50	9.00	26,70
M 12x1.50	100.00	22.00	9.00	7.00	10.50	29,50
M 14x1.50	100.00	22.00	11.00	9.00	12.50	36,50
M 16x1.50	100.00	22.00	12.00	9.00	14.50	46,40
M 18x1.50	110.00	25.00	14.00	11.00	16.50	60,00
M 20x1.50	125.00	35.00	16.00	12.00	18.50	67,10

9750 Maschio a Macchina passo fine HSS-E DIN 374 Nitruato

Machine Taps HSS-E DIN 374 VA

Tolleranza ISO 2 6H / Tipo VA R40 / Per fori ciechi / Elica 40° / 3 x D
 Metric Fine Threads Tolerance ISO2 6H / For blind holes / Right-hand 40° / 3 x D



Ø D	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
M 6x0.75	80.00	13.00	4.50	3.40	5.20	21,10
M 8x1.00	90.00	17.00	6.00	4.90	7.00	23,00
M 10x1.00	90.00	18.00	7.00	5.50	9.00	27,00
M 12x1.00	100.00	18.00	9.00	7.00	11.00	31,20
M 12x1.50	100.00	22.00	9.00	7.00	10.50	29,90
M 14x1.50	100.00	22.00	11.00	9.00	12.50	37,00
M 16x1.50	100.00	22.00	12.00	9.00	14.50	47,00
M 20x1.50	125.00	35.00	16.00	12.00	18.50	68,10

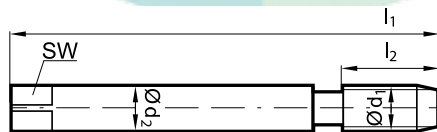
9760 Maschio a Macchina GAS HSS-E DIN 5156

Machine Taps GAS HSS-E DIN 5156 form B

Tolleranza ISO 228 / Tipo N / Per fori passanti / Imbocco corretto / 3 x D
 BSP Threads Tolerance ISO 228 / For through holes / 3 x D



Ø D	P. Fill	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
G 1/8"	28.00	90.00	18.00	7.00	5.50	8.80	26,60
G 1/4"	19.00	100.00	22.00	11.00	9.00	11.80	35,30
G 3/8"	19.00	100.00	22.00	12.00	9.00	15.25	41,00
G 1/2"	14.00	125.00	25.00	16.00	12.00	19.00	59,20
G 3/4"	14.00	140.00	28.00	20.00	16.00	24.50	108,10
G 1"	11.00	160.00	30.00	25.00	20.00	30.75	158,80



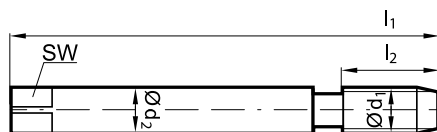
9770 Maschio a Macchina GAS HSS-E DIN 5156 Nitruato

Machine Taps GAS HSS-E DIN 5156 Form B

Tolleranza ISO 228 / Tipo VA / Per fori passanti / Imbocco corretto / 3 x D
 BSP Threads Tolerance ISO 228 / For through holes / 3 x D



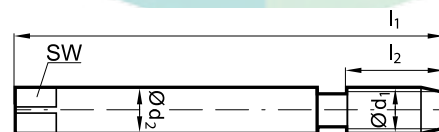
Ø D	P. Fill	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
G 1/8"	28.00	90.00	18.00	7.00	5.50	8.80	29,70
G 1/4"	19.00	100.00	22.00	11.00	9.00	11.80	39,40
G 3/8"	19.00	100.00	22.00	12.00	9.00	15.25	45,60
G 1/2"	14.00	125.00	25.00	16.00	12.00	19.00	66,20
G 3/4"	14.00	140.00	28.00	20.00	16.00	24.50	120,70
G 1"	11.00	160.00	30.00	25.00	20.00	30.75	177,20



9780 Maschio a Macchina GAS HSS-E DIN 5156

Machine Taps GAS HSS-E DIN 5156

Tolleranza ISO 228 / Tipo N R35 / Per fori ciechi / Elica 35° / 3 x D
 BSP Threads Tolerance ISO 228 / For blind holes / Right-hand 35° / 3 x D

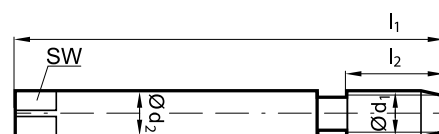


Ø D	P. Fill	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
G 1/8"	28.00	90.00	18.00	7.00	5.50	8.80	28,40
G 1/4"	19.00	100.00	22.00	11.00	9.00	11.80	37,40
G 3/8"	19.00	100.00	22.00	12.00	9.00	15.25	30,90
G 1/2"	14.00	125.00	25.00	16.00	12.00	19.00	61,40
G 3/4"	14.00	140.00	28.00	20.00	16.00	24.50	115,70
G 1"	11.00	160.00	30.00	25.00	20.00	30.75	169,30

9790 Maschio a Macchina GAS HSS-E DIN 5156

Machine Taps GAS HSS-E DIN 5156

Tolleranza ISO 228 / Tipo VA R35 / Per fori ciechi / Elica 35° / 3 x D
 BSP Threads Tolerance ISO 228 / For blind holes / Right-hand 35° / 3 x D



Ø D	P. Fill	l ₁	l ₂	Ø d2 mm	SW	Preforo	€ pezzo/each
G 1/8"	28.00	90.00	18.00	7.00	5.50	8.80	28,60
G 1/4"	19.00	100.00	22.00	11.00	9.00	11.80	37,90
G 3/8"	19.00	100.00	22.00	12.00	9.00	15.25	31,30
G 1/2"	14.00	125.00	25.00	16.00	12.00	19.00	62,10
G 3/4"	14.00	140.00	28.00	20.00	16.00	24.50	117,20
G 1"	11.00	160.00	30.00	25.00	20.00	30.75	171,80



106



Kit

Kit

9140 Kit 1 Drills Carbide Kit

Kit Punta 9140 / Non forate / Prefori per maschi a rullare / 3 x D
Drills Carbide Kit 9140 / Without oil feed / For fluteless taps / 3 x D

D 3.70	M 4
D 4.65	M 5
D 5.55	M 6
D 7.40	M 8
D 9.30	M 10

122,80 €



9140 Kit 2 Drills Carbide Kit

Kit Punta 9140 / Non forate / Prefori passo metrico / 3 x D
Drills Carbide Kit 9140 / Without oil feed / For metric threads / 3 x D

D 3.30	M 4
D 4.20	M 5
D 5.00	M 6
D 6.80	M 8
D 8.50	M 10

122,80 €



9110 Kit Drills Carbide Kit

Kit Punta 9110 / Forate / Prefori passo metrico / 5 x D
Drills Carbide Kit 9110 / With oil feed / For metric threads / 5 x D

D 3.30	M 4
D 4.20	M 5
D 5.00	M 6
D 6.80	M 8
D 8.50	M 10

225,50 €



9335 Kit Milling Cutters Carbide Kit

Kit Frese 9335 MD / Z4 / Passo differenziato / 35-38° / Riv. TiAlN / DIN 6527L
Milling Cutters Carbide Kit 9335 MD / Unequal helix 36° 38° / TiN coated

D 5.00
D 6.00
D 8.00
D 10.00
D 12.00

140,00 €



9900 Kit Countersinks HSS Kit

Kit Svasatori / HSS / 90° / DIN 335 lucido
Countersinks HSS Kit / DIN 335 / HSS / 90° / DIN 335

D 8.30
D 12.40
D 16.50
D 20.50
D 25.00

65,00 €



1110 Kit Taps HSS-E Kit

Kit Maschi a rullare / HSS-E / Con canalini / Rivestiti TiN / Tolleranza 6HX
Taps HSS-E Kit / DIN 371 / TiN coated

M 4
M 5
M 6
M 8
M 10

173,10 €



9221 Kit 1 Drills HSS Kit

Serie Punta / HSS / DIN 338 / 1-10 x 0.50
Drills HSS Kit / DIN 338 / 1-10 x 0.50

da D 1.00 a D 10.00 (progressivo 0.50)

56,40 €



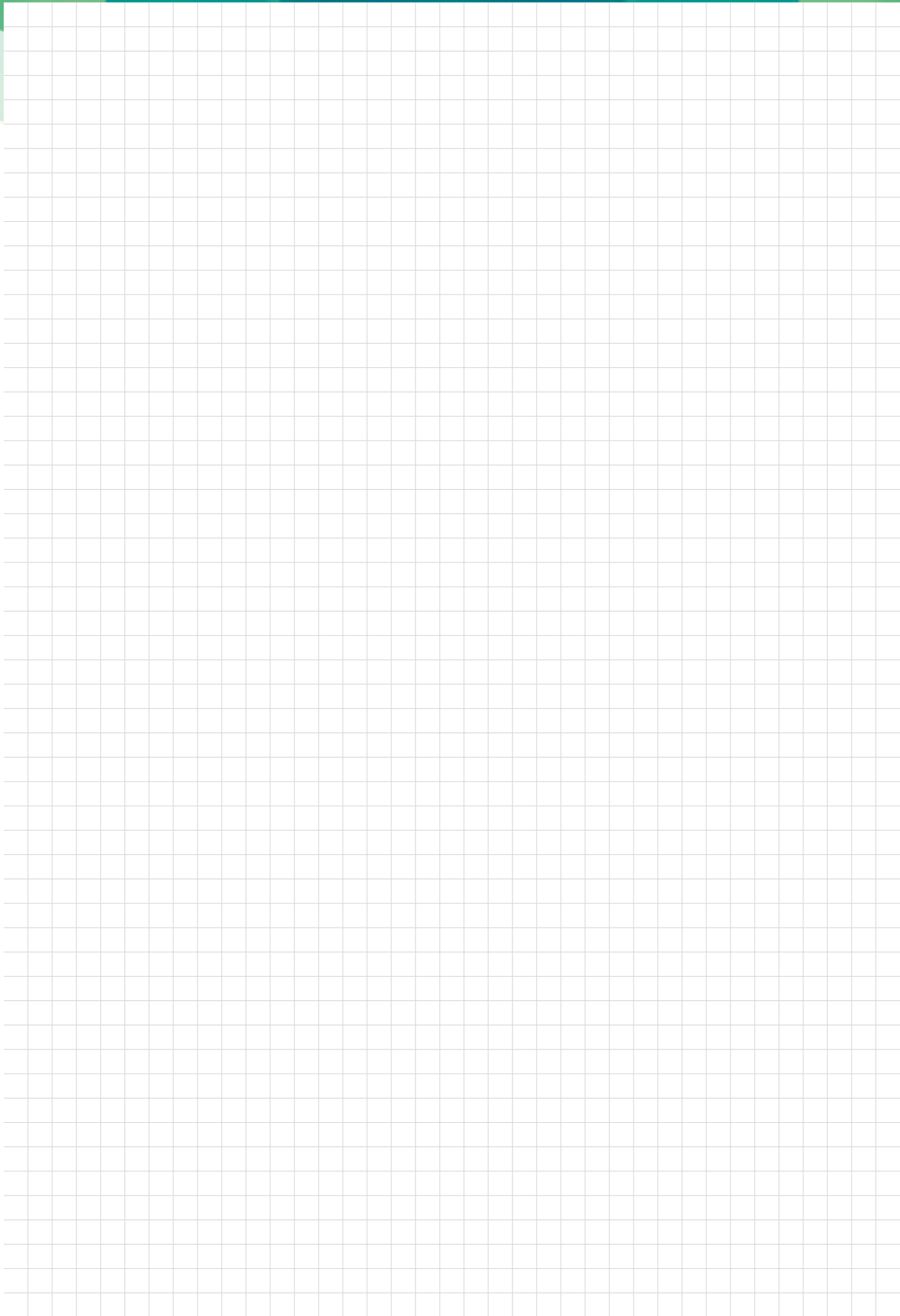
9221 Kit 2 Drills HSS Kit

Serie Punta / HSS / DIN 338 / 1-13 x 0.50
Drills HSS Kit / DIN 338 / 1-13 x 0.50

da D 1.00 a D 13.00 (progressivo 0.50)

107,30 €





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