

## D413 / D433FN 超微粒鎢鋼鑽頭 / 超微粒鎢鋼塗層高速鑽頭

## Twist Drills / High Performance Drills

D413 118° X-type drill point design is easy for positioning.

Designed with sharp drill point.

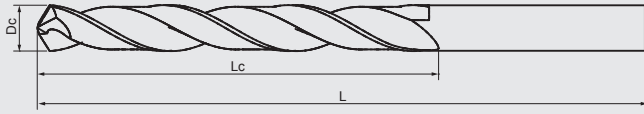
D433FN 140° S-type drill point design with centring and positioning function, reduce axial drilling force. Designed with high chip evacuating flutes.

Good wear resistance and lubricating effect with Nano multilayer coating.

D413 118° X型鑽尖設計具有定位功能。具有銳利度鑽尖形狀設計。

D433FN 140° S型鑽尖設計具有減少軸向力。

高排屑的溝槽形狀設計。採用奈米多層膜塗層具有優異的潤滑及耐磨性。



VHM  
Carbide



DIN  
338



Suitable for drilling with 5XD depth.

D413 Application for drilling cast iron, aluminium, copper, plastic, composite materials...and etc.

D433FN Application for drilling steels below 48HRC, cast iron...and etc.

適合5倍Dc鑽孔深度。

D413 適用切削於鑄鐵、鋁合金、銅合金、塑膠、複合材料...等鑽孔應用。

D433FN 適用切削48HRC以下的各種鋼材、鑄鐵...等材料鑽孔應用。

K  
N

Uncoated  
Bright  
118°  
AL, Cu,  
PVC,  
CFRP

P  
H  
K

AlTiCrN  
FN  
140°  
Steel  
<48HRC  
Stainless  
Cast Iron

## DIN 338 Standard Length

Dc h7	Lc mm	L mm	D413 Bright	D433FN AlTiCrN
1	12	34	●	●
1.1	14	36	●	●
1.2	16	38	●	●
1.3	16	38	●	●
1.4	18	40	●	●
1.5	18	40	●	●
1.6	20	43	●	●
1.7	20	43	●	●
1.8	22	46	●	●
1.9	22	46	●	●
2	24	49	●	●
2.1	24	49	●	●
2.2	27	53	●	●
2.3	27	53	●	●
2.4	30	57	●	●
2.5	30	57	●	●
2.6	30	57	●	●
2.7	33	61	●	●
2.8	33	61	●	●
2.9	33	61	●	●
3	33	61	●	●
3.1	36	65	●	●
3.2	36	65	●	●
3.3	36	65	●	●
3.4	39	70	●	●
3.5	39	70	●	●
3.6	39	70	●	●
3.7	39	70	●	●
3.8	43	75	●	●
3.9	43	75	●	●
4	43	75	●	●
4.1	43	75	●	●
4.2	43	75	●	●
4.3	47	80	●	●
4.4	47	80	●	●
4.5	47	80	●	●
4.6	47	80	●	●
4.7	47	80	●	●
4.8	52	86	●	●
4.9	52	86	●	●

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## Twist Drills / High Performance Drills

Dc h7	Lc mm	L mm	D413 Bright	D433FN AlTiCrN	
5	52	86	●	●	
5.1	52	86	●	●	
5.2	52	86	●	●	
5.3	52	86	●	●	
5.4	57	93	●	●	
5.5	57	93	●	●	
5.6	57	93	●	●	
5.7	57	93	●	●	
5.8	57	93	●	●	
5.9	57	93	●	●	
6	57	93	●	●	
6.1	63	101	●	●	
6.2	63	101	●	●	
6.3	63	101	●	●	
6.4	63	101	●	●	
6.5	63	101	●	●	
6.6	63	101	●	●	
6.7	63	101	●	●	
6.8	69	109	●	●	
6.9	69	109	●	●	
7	69	109	●	●	
7.1	69	109	●	●	
7.2	69	109	●	●	
7.3	69	109	●	●	
7.4	69	109	●	●	
7.5	69	109	●	●	
7.6	75	117	●	●	
7.7	75	117	●	●	
7.8	75	117	●	●	
7.9	75	117	●	●	
8	75	117	●	●	
8.1	75	117	●	●	
8.2	75	117	●	●	
8.3	75	117	●	●	
8.4	75	117	●	●	
8.5	75	117	●	●	
8.6	81	125	●	●	
8.7	81	125	●	●	
8.8	81	125	●	●	
8.9	81	125	●	●	
9	81	125	●	●	
9.1	81	125	●	●	
9.2	81	125	●	●	
9.3	81	125	●	●	
9.4	81	125	●	●	
9.5	81	125	●	●	
9.6	87	133	●	●	
9.7	87	133	●	●	
9.8	87	133	●	●	
9.9	87	133	●	●	
10	87	133	●	●	
10.2	87	133	●	●	
10.5	87	133	●	●	
10.8	94	142	●	●	
11	94	142	●	●	
11.5	94	142	●	●	
12	101	151	●	●	
12.5	101	151	●	●	
13	101	151	●	●	

Please refer to page 300 for parameters.