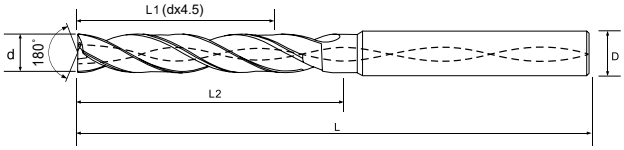
3xD Flat Drill with Coolant Hole
3FDC 內冷平頭鑽

切削條件表 P212 Cutting Condition





MODE 型號		Dimension 規格				
Coating 塗層		Diameter	Effective Drill Depth	Flute Length	Shank Diameter	Full Length
nACRo	ZrN-A	d 刃徑	L1 有效深度	L2 溝長	D 直徑	L 全長
3FDC0302 nACRo	3FDC0302 ZrN-A	3.0	13.5	15.0	6.0	50
3FDC0312 nACRo	3FDC0312 ZrN-A	3.1	14.0	15.5	6.0	50
3FDC0322 nACRo	3FDC0322 ZrN-A	3.2	14.4	16.0	6.0	50
3FDC0332 nACRo	3FDC0332 ZrN-A	3.3	14.9	16.5	6.0	50
3FDC0342 nACRo	3FDC0342 ZrN-A	3.4	15.3	17.0	6.0	50
3FDC0352 nACRo	3FDC0352 ZrN-A	3.5	15.8	17.5	6.0	50
3FDC0362 nACRo	3FDC0362 ZrN-A	3.6	16.2	18.0	6.0	55
3FDC0372 nACRo	3FDC0372 ZrN-A	3.7	16.7	18.5	6.0	55
3FDC0382 nACRo	3FDC0382 ZrN-A	3.8	17.1	19.0	6.0	55
3FDC0392 nACRo	3FDC0392 ZrN-A	3.9	17.6	19.5	6.0	55
3FDC0402 nACRo	3FDC0402 ZrN-A	4.0	18.0	20.0	6.0	55
3FDC0412 nACRo	3FDC0412 ZrN-A	4.1	18.5	20.5	6.0	60
3FDC0422 nACRo	3FDC0422 ZrN-A	4.2	18.9	21.0	6.0	60
3FDC0432 nACRo	3FDC0432 ZrN-A	4.3	19.4	21.5	6.0	60
3FDC0442 nACRo	3FDC0442 ZrN-A	4.4	19.8	22.0	6.0	60
3FDC0452 nACRo	3FDC0452 ZrN-A	4.5	20.3	22.5	6.0	60
3FDC0462 nACRo	3FDC0462 ZrN-A	4.6	20.7	23.0	6.0	60
3FDC0472 nACRo	3FDC0472 ZrN-A	4.7	21.2	23.5	6.0	60
3FDC0482 nACRo	3FDC0482 ZrN-A	4.8	21.6	24.0	6.0	60
3FDC0492 nACRo	3FDC0492 ZrN-A	4.9	22.1	24.5	6.0	60
3FDC0502 nACRo	3FDC0502 ZrN-A	5.0	22.5	25.0	6.0	60
3FDC0512 nACRo	3FDC0512 ZrN-A	5.1	23.0	25.5	6.0	65
3FDC0522 nACRo	3FDC0522 ZrN-A	5.2	23.4	26.0	6.0	65
3FDC0532 nACRo	3FDC0532 ZrN-A	5.3	23.9	26.5	6.0	65
3FDC0542 nACRo	3FDC0542 ZrN-A	5.4	24.3	27.0	6.0	65

Application 適用材質：

★ Perfect 最推薦　◎ Excellent 適合　○ Good 佳

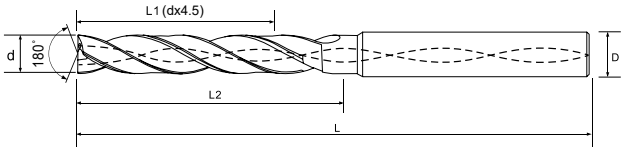
Coating 塗層	Carbon steel, Alloy steel 炭素鋼 , 合金鋼	Pre-harden steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不鏽鋼	Cast iron 鑄鐵	Copper alloy 銅合金 , 銅	Aluminum alloy 鋁合金	Titanium alloy 鈦合金	Nickel/Inconel alloy 鎳基合金
		~45HRC	~50HRC	~55HRC	~60HRC	~65HRC						
nACRo	◎	○					○	○				
ZrN-A	○						◎	○	○	○	○	

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3xD Flat Drill with Coolant Hole
3FDC 內冷平頭鑽







MODE 型號		Dimension 規格				
Coating 塗層		Diameter	Effective Drill Depth	Flute Length	Shank Diameter	Full Length
nACRo	ZrN-A	d 刃徑	L1 有效深度	L2 溝長	D 直徑	L 全長
3FDC0552 nACRo	3FDC0552 ZrN-A	5.5	24.8	27.5	6.0	65
3FDC0562 nACRo	3FDC0562 ZrN-A	5.6	25.2	28.0	6.0	65
3FDC0572 nACRo	3FDC0572 ZrN-A	5.7	25.7	28.5	6.0	65
3FDC0582 nACRo	3FDC0582 ZrN-A	5.8	26.1	29.0	6.0	65
3FDC0592 nACRo	3FDC0592 ZrN-A	5.9	26.6	29.5	6.0	65
3FDC0602 nACRo	3FDC0602 ZrN-A	6.0	27.0	30.0	6.0	65
3FDC0612 nACRo	3FDC0612 ZrN-A	6.1	27.5	30.5	8.0	70
3FDC0622 nACRo	3FDC0622 ZrN-A	6.2	27.9	31.0	8.0	70
3FDC0632 nACRo	3FDC0632 ZrN-A	6.3	28.4	31.5	8.0	70
3FDC0642 nACRo	3FDC0642 ZrN-A	6.4	28.8	32.0	8.0	70
3FDC0652 nACRo	3FDC0652 ZrN-A	6.5	29.3	32.5	8.0	70
3FDC0662 nACRo	3FDC0662 ZrN-A	6.6	29.7	33.0	8.0	75
3FDC0672 nACRo	3FDC0672 ZrN-A	6.7	30.2	33.5	8.0	75
3FDC0682 nACRo	3FDC0682 ZrN-A	6.8	30.6	34.0	8.0	75
3FDC0692 nACRo	3FDC0692 ZrN-A	6.9	31.1	34.5	8.0	75
3FDC0702 nACRo	3FDC0702 ZrN-A	7.0	31.5	35.0	8.0	75
3FDC0712 nACRo	3FDC0712 ZrN-A	7.1	32.0	35.5	8.0	80
3FDC0722 nACRo	3FDC0722 ZrN-A	7.2	32.4	36.0	8.0	80
3FDC0732 nACRo	3FDC0732 ZrN-A	7.3	32.9	36.5	8.0	80
3FDC0742 nACRo	3FDC0742 ZrN-A	7.4	33.3	37.0	8.0	80
3FDC0752 nACRo	3FDC0752 ZrN-A	7.5	33.8	37.5	8.0	80
3FDC0762 nACRo	3FDC0762 ZrN-A	7.6	34.2	38.0	8.0	80
3FDC0772 nACRo	3FDC0772 ZrN-A	7.7	34.7	38.5	8.0	80
3FDC0782 nACRo	3FDC0782 ZrN-A	7.8	35.1	39.0	8.0	80
3FDC0792 nACRo	3FDC0792 ZrN-A	7.9	35.6	39.5	8.0	80

Application 適用材質：

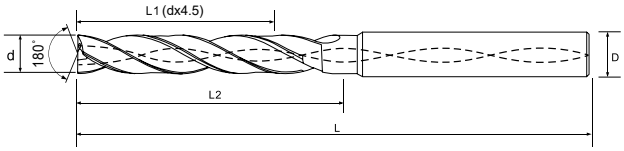
★ Perfect 最推薦　◎ Excellent 適合　○ Good 佳

Coating 塗層	Carbon steel, Alloy steel 炭素鋼，合金鋼	Pre-harden steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不鏽鋼	Cast iron 鑄鐵	Copper alloy 銅合金，銅	Aluminum alloy 鋁合金	Titanium alloy 鈦合金	Nickel/Inconel alloy 鎳基合金
		~45HRC	~50HRC	~55HRC	~60HRC	~65HRC						
nACRo	◎	○					○	○				
ZrN-A	○						◎	○	○	○	○	

3xD Flat Drill with Coolant Hole
3FDC 內冷平頭鑽

切削條件表 P212 Cutting Condition





MODE 型號		Dimension 規格				
Coating 塗層		Diameter	Effective Drill Depth	Flute Length	Shank Diameter	Full Length
nACRo	ZrN-A	d 刃徑	L1 有效深度	L2 溝長	D 直徑	L 全長
3FDC0802 nACRo	3FDC0802 ZrN-A	8.0	36.0	40.0	8.0	80
3FDC0812 nACRo	3FDC0812 ZrN-A	8.1	36.5	40.5	10	85
3FDC0822 nACRo	3FDC0822 ZrN-A	8.2	36.9	41.0	10	85
3FDC0832 nACRo	3FDC0832 ZrN-A	8.3	37.4	41.5	10	85
3FDC0842 nACRo	3FDC0842 ZrN-A	8.4	37.8	42.0	10	85
3FDC0852 nACRo	3FDC0852 ZrN-A	8.5	38.3	42.5	10	85
3FDC0862 nACRo	3FDC0862 ZrN-A	8.6	38.7	43.0	10	90
3FDC0872 nACRo	3FDC0872 ZrN-A	8.7	39.2	43.5	10	90
3FDC0882 nACRo	3FDC0882 ZrN-A	8.8	39.6	44.0	10	90
3FDC0892 nACRo	3FDC0892 ZrN-A	8.9	40.1	44.5	10	90
3FDC0902 nACRo	3FDC0902 ZrN-A	9.0	40.5	45.0	10	90
3FDC0912 nACRo	3FDC0912 ZrN-A	9.1	41.0	45.5	10	95
3FDC0922 nACRo	3FDC0922 ZrN-A	9.2	41.4	46.0	10	95
3FDC0932 nACRo	3FDC0932 ZrN-A	9.3	41.9	46.5	10	95
3FDC0942 nACRo	3FDC0942 ZrN-A	9.4	42.3	47.0	10	95
3FDC0952 nACRo	3FDC0952 ZrN-A	9.5	42.8	47.5	10	95
3FDC0962 nACRo	3FDC0962 ZrN-A	9.6	43.2	48.0	10	95
3FDC0972 nACRo	3FDC0972 ZrN-A	9.7	43.7	48.5	10	95
3FDC0982 nACRo	3FDC0982 ZrN-A	9.8	44.1	49.0	10	95
3FDC0992 nACRo	3FDC0992 ZrN-A	9.9	44.6	49.5	10	95
3FDC1002 nACRo	3FDC1002 ZrN-A	10.0	45.0	50.0	10	95
3FDC1012 nACRo	3FDC1012 ZrN-A	10.1	45.5	50.5	12	100
3FDC1022 nACRo	3FDC1022 ZrN-A	10.2	45.9	51.0	12	100
3FDC1032 nACRo	3FDC1032 ZrN-A	10.3	46.4	51.5	12	100
3FDC1042 nACRo	3FDC1042 ZrN-A	10.4	46.8	52.0	12	100

Application 適用材質：

★ Perfect 最推薦　◎ Excellent 適合　○ Good 佳

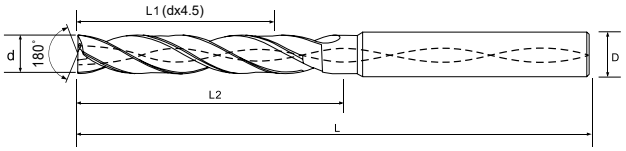
Coating 塗層	Carbon steel, Alloy steel 炭素鋼 , 合金鋼	Pre-harden steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不鏽鋼	Cast iron 鑄鐵	Copper alloy 銅合金 , 銅	Aluminum alloy 鋁合金	Titanium alloy 鈦合金	Nickel/Inconel alloy 鎳基合金
		~45HRC	~50HRC	~55HRC	~60HRC	~65HRC						
nACRo	◎	○					○	○				
ZrN-A	○						◎	○	○	○	○	

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3xD Flat Drill with Coolant Hole
3FDC 內冷平頭鑽







MODE 型號		Dimension 規格				
Coating 塗層		Diameter	Effective Drill Depth	Flute Length	Shank Diameter	Full Length
nACRo	ZrN-A	d 刃徑	L1 有效深度	L2 溝長	D 直徑	L 全長
3FDC1052 nACRo	3FDC1052 ZrN-A	10.5	47.3	52.5	12	100
3FDC1062 nACRo	3FDC1062 ZrN-A	10.6	47.7	53.0	12	105
3FDC1072 nACRo	3FDC1072 ZrN-A	10.7	48.2	53.5	12	105
3FDC1082 nACRo	3FDC1082 ZrN-A	10.8	48.6	54.0	12	105
3FDC1092 nACRo	3FDC1092 ZrN-A	10.9	49.1	54.5	12	105
3FDC1102 nACRo	3FDC1102 ZrN-A	11.0	49.5	55.0	12	105
3FDC1112 nACRo	3FDC1112 ZrN-A	11.1	50.0	55.5	12	110
3FDC1122 nACRo	3FDC1122 ZrN-A	11.2	50.4	56.0	12	110
3FDC1132 nACRo	3FDC1132 ZrN-A	11.3	50.9	56.5	12	110
3FDC1142 nACRo	3FDC1142 ZrN-A	11.4	51.3	57.0	12	110
3FDC1152 nACRo	3FDC1152 ZrN-A	11.5	51.8	57.5	12	110
3FDC1162 nACRo	3FDC1162 ZrN-A	11.6	52.2	58.0	12	110
3FDC1172 nACRo	3FDC1172 ZrN-A	11.7	52.7	58.5	12	110
3FDC1182 nACRo	3FDC1182 ZrN-A	11.8	53.1	59.0	12	110
3FDC1192 nACRo	3FDC1192 ZrN-A	11.9	53.6	59.5	12	110
3FDC1202 nACRo	3FDC1202 ZrN-A	12.0	54.0	60.0	12	115
3FDC1252 nACRo	3FDC1252 ZrN-A	12.5	56.3	62.5	14	120
3FDC1302 nACRo	3FDC1302 ZrN-A	13.0	58.5	65.0	14	120
3FDC1352 nACRo	3FDC1352 ZrN-A	13.5	60.8	67.5	14	125
3FDC1402 nACRo	3FDC1402 ZrN-A	14.0	63.0	70.0	14	125
3FDC1452 nACRo	3FDC1452 ZrN-A	14.5	65.3	72.5	16	135
3FDC1502 nACRo	3FDC1502 ZrN-A	15.0	67.5	75.0	16	135
3FDC1552 nACRo	3FDC1552 ZrN-A	15.5	69.8	77.5	16	140
3FDC1602 nACRo	3FDC1602 ZrN-A	16.0	72.0	80.0	16	140

Application 適用材質：

★ Perfect 最推薦　◎ Excellent 適合　○ Good 佳

Coating 塗層	Carbon steel, Alloy steel 炭素鋼 , 合金鋼	Pre-harden steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不鏽鋼	Cast iron 鑄鐵	Copper alloy 銅合金 , 銅	Aluminum alloy 鋁合金	Titanium alloy 鈦合金	Nickel/Inconel alloy 鎳基合金
		~45HRC	~50HRC	~55HRC	~60HRC	~65HRC						
nACRo	◎	○					○	○				
ZrN-A	○						◎	○	○	○	○	