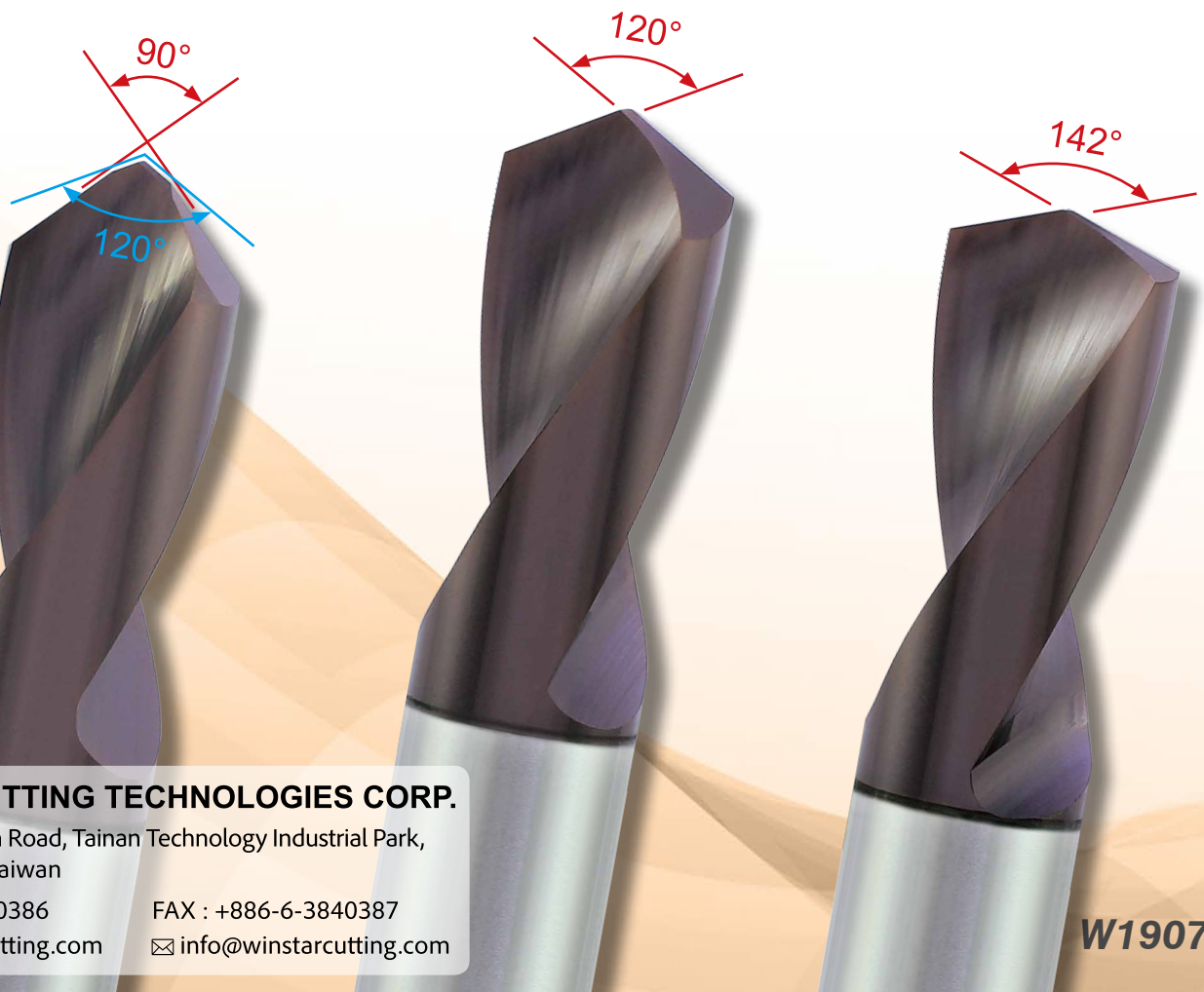


# DTN Series Solid Carbide Spotting Drills

P	M	K	N	S	H
●	●	●	○	○	●

- *Suitable for spotting or chamfering machining.*
- *For steel, stainless steel, cast iron, pre-hardened steel, from HRC 20 to HRC 60 materials.*
- *High accuracy double tip angle to reduce burr generation.*



## WINSTAR CUTTING TECHNOLOGIES CORP.

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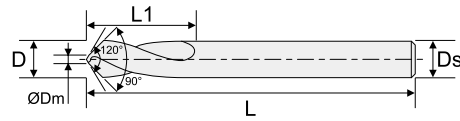
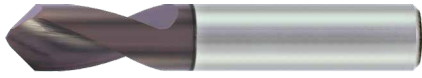
W190704E

## DTN Solid Carbide Spotting Drills

### DTN 90° Series

#### Product Specs

- 90° Tip Angle
- 45° Chamfer Angle
- External Coolant
- UNIX Coating
- Tolerance h8
- 90° & 120° double angle tip design, reduces drill tip cracking.



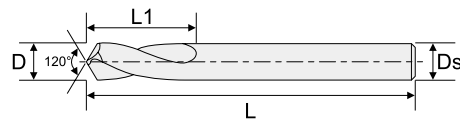
Order No.	ØDm	D	L1	L	Ds
DTN01300901	0.3	1.30	4	50	3
DTN01700901	0.4	1.70	5	50	3
DTN03000901	0.8	3.00	8	50	3
DTN04000901	1.0	4.00	10	50	4
DTN05000901	1.3	5.00	13	50	5
DTN06000901	1.5	6.00	15	50	6
DTN08000901	2.0	8.00	20	60	8
DTN10000901	2.5	10.00	25	75	10
DTN12000901	3.0	12.00	30	75	12
DTN16000901	4.0	16.00	35	100	16

Order No.	ØDm	D	L1	L	Ds
DTN04000911	1.0	4.00	10	75	4
DTN05000911	1.3	5.00	13	75	5
DTN06000911	1.5	6.00	15	100	6
DTN08000911	2.0	8.00	20	100	8
DTN10000911	2.5	10.00	25	150	10
DTN12000911	3.0	12.00	30	150	12
DTN16000911	4.0	16.00	35	150	16

### DTN 120° Series

#### Product Specs

- 120° Tip Angle
- 60° Chamfer Angle
- External Coolant
- UNIX Coating
- Tolerance h8



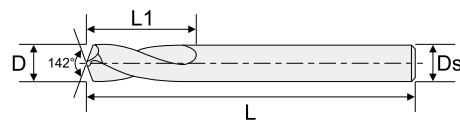
Order No.	D	L1	L	Ds
DTN03001201	3.00	8	50	3
DTN04001201	4.00	10	50	4
DTN05001201	5.00	13	50	5
DTN06001201	6.00	15	50	6
DTN08001201	8.00	20	60	8
DTN10001201	10.00	25	75	10
DTN12001201	12.00	30	75	12
DTN16001201	16.00	35	100	16

Order No.	D	L1	L	Ds
DTN04001211	4.00	10	75	4
DTN05001211	5.00	13	75	5
DTN06001211	6.00	15	100	6
DTN08001211	8.00	20	100	8
DTN10001211	10.00	25	150	10
DTN12001211	12.00	30	150	12
DTN16001211	16.00	35	150	16

### DTN 142° Series

#### Product Specs

- 142° Tip Angle
- 71° Chamfer Angle
- External Coolant
- UNIX Coating
- Tolerance h8



Order No.	D	L1	L	Ds
DTN03001401	3.00	8	50	3
DTN04001401	4.00	10	50	4
DTN05001401	5.00	13	50	5
DTN06001401	6.00	15	50	6
DTN08001401	8.00	20	60	8
DTN10001401	10.00	25	75	10
DTN12001401	12.00	30	75	12
DTN16001401	16.00	35	100	16

Order No.	D	L1	L	Ds
DTN04001411	4.00	10	75	4
DTN05001411	5.00	13	75	5
DTN06001411	6.00	15	100	6
DTN08001411	8.00	20	125	8
DTN10001411	10.00	25	150	10
DTN12001411	12.00	30	150	12
DTN16001411	16.00	35	150	16

### Recommended Cutting Conditions

	Material	VC (m/min)		Fr (mm/rev)
		DTN 90° & DTN 120°	DTN 140°	
P	Carbon steel	55 ~ 75	60 ~ 90	0.04 ~ 0.14
	Alloy steel	50 ~ 70	55 ~ 85	0.03 ~ 0.10
M	Stainless steel	20 ~ 40	22 ~ 50	0.02 ~ 0.10
K	Cast iron	50 ~ 80	55 ~ 95	0.04 ~ 0.13
H	Hardened steel	20 ~ 40	22 ~ 50	0.02 ~ 0.06