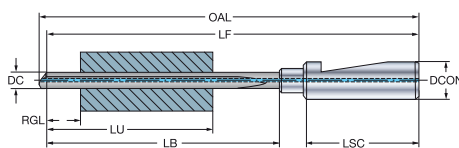


# Gun drill

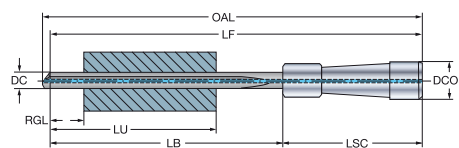
With internal coolant supply



A428.91-20x  
TCHA H9



A428.91-10x  
H9



CZC <sub>MS</sub>	DC	DC"	Ordering code	P		Dimensions, mm, inch													
				K5	K15	DCON	LU	LU"	LF	LF"	LB	LB"	OAL	OAL"	RGL	RGL"	LSC	LSC"	
1/2	1.98	.0781	A428.91-00781-06-101	☆	☆	12.7	89.00	3.503	152.00	5.984	114.00	4.488	152	5.984	10.00	.393	38.10	1.500	
	1.98	.0781	A428.91-00781-10-101	☆	☆	12.7	191.00	7.519	254.00	10.000	216.00	8.503	254	10.000	10.00	.393	38.10	1.500	
	2.38	.0937	A428.91-00937-06-101	☆	☆	12.7	88.40	3.480	152.00	5.984	114.00	4.488	152	5.984	10.00	.393	38.10	1.500	
	2.38	.0937	A428.91-00937-10-101	☆	☆	12.7	190.40	7.496	254.00	10.000	216.00	8.503	254	10.000	10.00	.393	38.10	1.500	
	2.38	.0937	A428.91-00937-16-101	☆	☆	12.7	342.40	13.480	406.00	15.984	368.00	14.488	406	15.984	10.00	.393	38.10	1.500	
	2.77	.1094	A428.91-01094-06-101	☆	☆	12.7	87.80	3.456	152.00	5.984	114.00	4.488	152	6.000	13.00	.511	38.10	1.500	
	2.77	.1094	A428.91-01094-10-101	☆	☆	12.7	189.80	7.472	254.00	10.000	216.00	8.503	254	10.000	13.00	.511	38.10	1.500	
	2.77	.1094	A428.91-01094-16-101	☆	☆	12.7	341.80	13.456	406.00	15.984	368.00	14.488	406	15.984	13.00	.511	38.10	1.500	
	3/4	3.17	.1250	A428.91-01250-10-103	☆	☆	19.0	159.20	6.267	254.00	10.000	184.00	7.244	254	10.000	13.00	.511	70.00	2.755
3.17		.1250	A428.91-01250-16-103	☆	☆	19.0	311.20	12.252	406.00	15.984	336.00	13.228	406	15.984	13.00	.511	70.00	2.755	
3.17		.1250	A428.91-01250-22-103	☆	☆	19.0	464.20	18.275	559.00	22.007	489.00	19.252	559	22.007	13.00	.511	70.00	2.755	
3.17		.1250	A428.91-01250-28-103	☆	☆	19.0	616.20	24.259	711.00	27.992	641.00	25.236	711	27.992	13.00	.511	70.00	2.755	
3.57		.1406	A428.91-01406-10-103	☆	☆	19.0	158.60	6.244	253.00	9.960	184.00	7.244	254	10.000	13.00	.511	70.00	2.755	
3.57		.1406	A428.91-01406-16-103	☆	☆	19.0	310.60	12.228	405.00	15.944	336.00	13.228	406	15.984	13.00	.511	70.00	2.755	
3.57		.1406	A428.91-01406-22-103	☆	☆	19.0	463.60	18.252	558.00	21.968	489.00	19.252	559	22.007	13.00	.511	70.00	2.755	
3.96		.1562	A428.91-01562-10-103	☆	☆	19.0	158.00	6.220	253.00	9.960	184.00	7.244	254	10.000	13.00	.511	70.00	2.755	
3.96		.1562	A428.91-01562-16-103	☆	☆	19.0	310.00	12.204	405.00	15.944	336.00	13.228	406	15.984	13.00	.511	70.00	2.755	
3.96		.1562	A428.91-01562-22-103	☆	☆	19.0	463.00	18.228	558.00	21.968	489.00	19.252	559	22.007	13.00	.511	70.00	2.755	
3.96		.1562	A428.91-01562-28-103	☆	☆	19.0	615.00	24.212	710.00	27.952	641.00	25.236	711	27.992	13.00	.511	70.00	2.755	
4.36		.1719	A428.91-01719-10-103	☆	☆	19.0	157.50	6.200	253.00	9.960	184.00	7.244	254	10.000	19.00	.748	70.00	2.755	
4.36		.1719	A428.91-01719-16-103	☆	☆	19.0	309.50	12.185	405.00	15.944	336.00	13.228	406	15.984	19.00	.748	70.00	2.755	
4.36		.1719	A428.91-01719-22-103	☆	☆	19.0	462.50	18.208	558.00	21.968	489.00	19.252	559	22.007	19.00	.748	70.00	2.755	
4.76		.1875	A428.91-01875-10-103	☆	☆	19.0	156.90	6.177	253.00	9.960	184.00	7.244	254	10.000	19.00	.748	70.00	2.755	
4.76		.1875	A428.91-01875-16-103	☆	☆	19.0	308.90	12.161	405.00	15.944	336.00	13.228	406	15.984	19.00	.748	70.00	2.755	
4.76		.1875	A428.91-01875-22-103	☆	☆	19.0	461.90	18.185	558.00	21.968	489.00	19.252	559	22.007	19.00	.748	70.00	2.755	
4.76		.1875	A428.91-01875-28-103	☆	☆	19.0	613.90	24.169	710.00	27.952	641.00	25.236	711	27.992	19.00	.748	70.00	2.755	
4.76		.1875	A428.91-01875-36-103	☆	☆	19.0	816.90	32.161	913.00	35.944	844.00	33.228	914	35.984	19.00	.748	70.00	2.755	
5.15		.2031	A428.91-02031-10-103	☆	☆	19.0	246.30	9.696	253.00	9.960	184.00	7.244	254	10.000	23.00	.905	70.00	2.755	
5.15		.2031	A428.91-02031-16-103	☆	☆	19.0	308.30	12.137	405.00	15.944	336.00	13.228	406	15.984	23.00	.905	70.00	2.755	
5.15		.2031	A428.91-02031-22-103	☆	☆	19.0	461.30	18.161	558.00	21.968	489.00	19.252	559	22.007	23.00	.905	70.00	2.755	
5.15		.2031	A428.91-02031-28-103	☆	☆	19.0	613.30	24.145	710.00	27.952	641.00	25.236	711	27.992	23.00	.905	70.00	2.755	
5.55		.2187	A428.91-02187-10-103	☆	☆	19.0	155.70	6.129	253.00	9.960	184.00	7.244	254	10.000	23.00	.905	70.00	2.755	
5.55	.2187	A428.91-02187-16-103	☆	☆	19.0	307.70	12.114	405.00	15.944	336.00	13.228	406	15.984	23.00	.905	70.00	2.755		
5.55	.2187	A428.91-02187-22-103	☆	☆	19.0	460.70	18.137	558.00	21.968	489.00	19.252	559	22.007	23.00	.905	70.00	2.755		
5.55	.2187	A428.91-02187-28-103	☆	☆	19.0	612.70	24.122	710.00	27.952	641.00	25.236	711	27.992	23.00	.905	70.00	2.755		
5.95	.2344	A428.91-02344-10-103	☆	☆	19.0	155.10	6.106	253.00	9.960	184.00	7.244	254	10.000	23.00	.905	70.00	2.755		
5.95	.2344	A428.91-02344-16-103	☆	☆	19.0	307.10	12.090	405.00	15.944	336.00	13.228	406	15.984	23.00	.905	70.00	2.755		
5.95	.2344	A428.91-02344-22-103	☆	☆	19.0	460.10	18.114	558.00	21.968	489.00	19.252	559	22.007	23.00	.905	70.00	2.755		
6.35	.2500	A428.91-02500-10-103	☆	☆	19.0	154.50	6.082	253.00	9.960	184.00	7.244	254	10.000	23.00	.905	70.00	2.755		
6.35	.2500	A428.91-02500-16-103	☆	☆	19.0	306.50	12.066	405.00	15.944	336.00	13.228	406	15.984	23.00	.905	70.00	2.755		
6.35	.2500	A428.91-02500-22-103	☆	☆	19.0	459.50	18.090	558.00	21.968	489.00	19.252	559	22.007	23.00	.905	70.00	2.755		
6.35	.2500	A428.91-02500-28-103	☆	☆	19.0	611.50	24.074	710.00	27.952	641.00	25.236	711	27.992	23.00	.905	70.00	2.755		
6.35	.2500	A428.91-02500-36-103	☆	☆	19.0	814.50	32.066	913.00	35.944	844.00	33.228	914	35.984	23.00	.905	70.00	2.755		
6.74	.2656	A428.91-02656-10-103	☆	☆	19.0	153.90	6.059	253.00	9.960	184.00	7.244	254	10.000	23.00	.905	70.00	2.755		
6.74	.2656	A428.91-02656-16-103	☆	☆	19.0	305.90	12.043	405.00	15.944	336.00	13.228	406	15.984	23.00	.905	70.00	2.755		
6.74	.2656	A428.91-02656-22-103	☆	☆	19.0	458.90	18.066	558.00	21.968	489.00	19.252	559	22.007	23.00	.905	70.00	2.755		
6.74	.2656	A428.91-02656-28-103	☆	☆	19.0	610.90	24.051	710.00	27.952	641.00	25.236	711	27.992	23.00	.905	70.00	2.755		
7.14	.2812	A428.91-02812-10-103	☆	☆	19.0	153.30	6.035	253.00	9.960	184.00	7.244	254	10.000	25.00	.984	70.00	2.755		
7.14	.2812	A428.91-02812-16-103	☆	☆	19.0	305.30	12.019	405.00	15.944	336.00	13.228	406	15.984	25.00	.984	70.00	2.755		
7.14	.2812	A428.91-02812-22-103	☆	☆	19.0	458.30	18.043	558.00	21.968	489.00	19.252	559	22.007	25.00	.984	70.00	2.755		
7.14	.2812	A428.91-02812-28-103	☆	☆	19.0	610.30	24.027	710.00	27.952	641.00	25.236	711	27.992	25.00	.984	70.00	2.755		
7.14	.2812	A428.91-02812-36-103	☆	☆	19.0	903.30	35.563	913.00	35.944	844.00	33.228	914	35.984	25.00	.984	70.00	2.755		

For explanation of parameters see page 1