

# AT1-FC

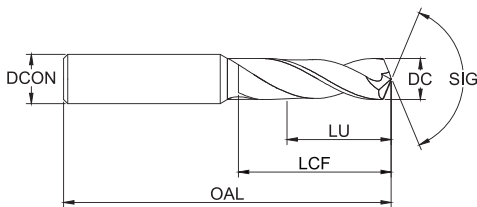
- ▶ MSTM's AT1 drills are designed for maximum value and good performance when drilling a wide variety of materials, ranging from soft, non-ferrous materials to semi-hardened steels.
- ▶ Twister GP drills are an excellent choice for all general-purpose hole-making applications.
- ▶ Next-generation HiPIMS technology FerroCon coating results in maximum tool surface hardness and smoothness resulting in increased tool life and maximum productivity.
- ▶ Recommended for drilling cast iron, unalloyed and alloyed steels, up to 45 HRC.



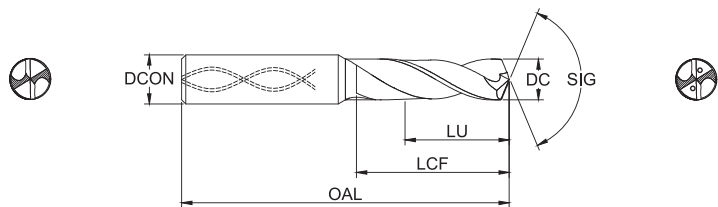
P	M	K	N	S	H
●		●	●		

● Recommended ○ Good

## External Coolant



## Internal Coolant



### L/D - 3 (Internal Coolant)



units in mm

CODE	DC	DCON	LU	LCF	OAL
MS-AT1-03-1-0300-FC	3.0	6	14	20	62
MS-AT1-03-1-0310-FC	3.1	6	14	20	62
MS-AT1-03-1-0320-FC	3.2	6	14	20	62
MS-AT1-03-1-0330-FC	3.3	6	14	20	62
MS-AT1-03-1-0340-FC	3.4	6	14	20	62
MS-AT1-03-1-0350-FC	3.5	6	14	20	62
MS-AT1-03-1-0360-FC	3.6	6	14	20	62
MS-AT1-03-1-0370-FC	3.7	6	14	20	62
MS-AT1-03-1-0380-FC	3.8	6	17	24	66
MS-AT1-03-1-0390-FC	3.9	6	17	24	66
MS-AT1-03-1-0400-FC	4.0	6	17	24	66
MS-AT1-03-1-0410-FC	4.1	6	17	24	66
MS-AT1-03-1-0420-FC	4.2	6	17	24	66
MS-AT1-03-1-0430-FC	4.3	6	17	24	66
MS-AT1-03-1-0440-FC	4.4	6	17	24	66
MS-AT1-03-1-0450-FC	4.5	6	17	24	66
MS-AT1-03-1-0460-FC	4.6	6	17	24	66
MS-AT1-03-1-0470-FC	4.7	6	17	24	66
MS-AT1-03-1-0480-FC	4.8	6	20	28	66
MS-AT1-03-1-0490-FC	4.9	6	20	28	66
MS-AT1-03-1-0500-FC	5.0	6	20	28	66
MS-AT1-03-1-0510-FC	5.1	6	20	28	66
MS-AT1-03-1-0520-FC	5.2	6	20	28	66
MS-AT1-03-1-0530-FC	5.3	6	20	28	66
MS-AT1-03-1-0540-FC	5.4	6	20	28	66
MS-AT1-03-1-0550-FC	5.5	6	20	28	66
MS-AT1-03-1-0560-FC	5.6	6	20	28	66
MS-AT1-03-1-0570-FC	5.7	6	20	28	66
MS-AT1-03-1-0580-FC	5.8	6	20	28	66
MS-AT1-03-1-0590-FC	5.9	6	20	28	66
MS-AT1-03-1-0600-FC	6.0	6	20	28	66

### L/D - 3 (Internal Coolant)



units in mm

CODE	DC	DCON	LU	LCF	OAL
MS-AT1-03-1-0610-FC	6.1	8	24	34	79
MS-AT1-03-1-0620-FC	6.2	8	24	34	79
MS-AT1-03-1-0630-FC	6.3	8	24	34	79
MS-AT1-03-1-0640-FC	6.4	8	24	34	79
MS-AT1-03-1-0650-FC	6.5	8	24	34	79
MS-AT1-03-1-0660-FC	6.6	8	24	34	79
MS-AT1-03-1-0670-FC	6.7	8	24	34	79
MS-AT1-03-1-0680-FC	6.8	8	24	34	79
MS-AT1-03-1-0690-FC	6.9	8	24	34	79
MS-AT1-03-1-0700-FC	7.0	8	24	34	79
MS-AT1-03-1-0710-FC	7.1	8	29	41	79
MS-AT1-03-1-0720-FC	7.2	8	29	41	79
MS-AT1-03-1-0730-FC	7.3	8	29	41	79
MS-AT1-03-1-0740-FC	7.4	8	29	41	79
MS-AT1-03-1-0750-FC	7.5	8	29	41	79
MS-AT1-03-1-0760-FC	7.6	8	29	41	79
MS-AT1-03-1-0770-FC	7.7	8	29	41	79
MS-AT1-03-1-0780-FC	7.8	8	29	41	79
MS-AT1-03-1-0790-FC	7.9	8	29	41	79
MS-AT1-03-1-0800-FC	8.0	8	29	41	79
MS-AT1-03-1-0810-FC	8.1	10	35	47	89
MS-AT1-03-1-0820-FC	8.2	10	35	47	89
MS-AT1-03-1-0830-FC	8.3	10	35	47	89
MS-AT1-03-1-0840-FC	8.4	10	35	47	89
MS-AT1-03-1-0850-FC	8.5	10	35	47	89
MS-AT1-03-1-0860-FC	8.6	10	35	47	89
MS-AT1-03-1-0870-FC	8.7	10	35	47	89
MS-AT1-03-1-0880-FC	8.8	10	35	47	89
MS-AT1-03-1-0890-FC	8.9	10	35	47	89
MS-AT1-03-1-0900-FC	9.0	10	35	47	89
MS-AT1-03-1-0910-FC	9.1	10	35	47	89

### L/D - 3 (Internal Coolant)



units in mm

CODE	DC	DCON	LU	LCF	OAL
MS-AT1-03-1-0920-FC	9.2	10	35	47	89
MS-AT1-03-1-0930-FC	9.3	10	35	47	89
MS-AT1-03-1-0940-FC	9.4	10	35	47	89
MS-AT1-03-1-0950-FC	9.5	10	35	47	89
MS-AT1-03-1-0960-FC	9.6	10	35	47	89
MS-AT1-03-1-0970-FC	9.7	10	35	47	89
MS-AT1-03-1-0980-FC	9.8	10	35	47	89
MS-AT1-03-1-0990-FC	9.9	10	35	47	89
MS-AT1-03-1-1000-FC	10	10	35	47	89
MS-AT1-03-1-1010-FC	10.1	12	40	55	105
MS-AT1-03-1-1020-FC	10.2	12	40	55	105
MS-AT1-03-1-1030-FC	10.3	12	40	55	105
MS-AT1-03-1-1040-FC	10.4	12	40	55	105
MS-AT1-03-1-1050-FC	10.5	12	40	55	105
MS-AT1-03-1-1060-FC	10.6	12	40	55	105
MS-AT1-03-1-1070-FC	10.7	12	40	55	105
MS-AT1-03-1-1080-FC	10.8	12	40	55	105
MS-AT1-03-1-1090-FC	10.9	12	40	55	105
MS-AT1-03-1-1100-FC	11	12	40	55	105
MS-AT1-03-1-1110-FC	11.1	12	40	55	105
MS-AT1-03-1-1120-FC	11.2	12	40	55	105
MS-AT1-03-1-1130-FC	11.3	12	40	55	105
MS-AT1-03-1-1140-FC	11.4	12	40	55	105
MS-AT1-03-1-1150-FC	11.5	12	40	55	105
MS-AT1-03-1-1160-FC	11.6	12	40	55	105
MS-AT1-03-1-1170-FC	11.7	12	40	55	105
MS-AT1-03-1-1180-FC	11.8	12	40	55	105
MS-AT1-03-1-1190-FC	11.9	12	40	55	105
MS-AT1-03-1-1200-FC	12	12	40	55	105
MS-AT1-03-1-1210-FC	12.1	14	43	60	107
MS-AT1-03-1-1220-FC	12.2	14	43	60	107

### L/D - 3 (Internal Coolant)



units in mm

CODE	DC	DCON	LU	LCF	OAL
MS-AT1-03-1-1230-FC	12.3	14	43	60	107
MS-AT1-03-1-1240-FC	12.4	14	43	60	107
MS-AT1-03-1-1250-FC	12.5	14	43	60	107
MS-AT1-03-1-1260-FC	12.6	14	43	60	107
MS-AT1-03-1-1270-FC	12.7	14	43	60	107
MS-AT1-03-1-1280-FC	12.8	14	43	60	107
MS-AT1-03-1-1290-FC	12.9	14	43	60	107
MS-AT1-03-1-1300-FC	13	14	43	60	107
MS-AT1-03-1-1310-FC	13.1	14	43	60	107
MS-AT1-03-1-1320-FC	13.2	14	43	60	107
MS-AT1-03-1-1330-FC	13.3	14	43	60	107
MS-AT1-03-1-1340-FC	13.4	14	43	60	107
MS-AT1-03-1-1350-FC	13.5	14	43	60	107
MS-AT1-03-1-1360-FC	13.6	14	43	60	107
MS-AT1-03-1-1370-FC	13.7	14	43	60	107
MS-AT1-03-1-1380-FC	13.8	14	43	60	107
MS-AT1-03-1-1390-FC	13.9	14	43	60	107
MS-AT1-03-1-1400-FC	14	14	43	60	107
MS-AT1-03-1-1410-FC	14.1	16	45	65	115
MS-AT1-03-1-1420-FC	14.2	16	45	65	115
MS-AT1-03-1-1430-FC	14.3	16	45	65	115
MS-AT1-03-1-1440-FC	14.4	16	45	65	115
MS-AT1-03-1-1450-FC	14.5	16	45	65	115
MS-AT1-03-1-1460-FC	14.6	16	45	65	115
MS-AT1-03-1-1470-FC	14.7	16	45	65	115
MS-AT1-03-1-1480-FC	14.8	16	45	65	115
MS-AT1-03-1-1490-FC	14.9	16	45	65	115
MS-AT1-03-1-1500-FC	15	16	45	65	115
MS-AT1-03-1-1510-FC	15.1	16	45	65	115
MS-AT1-03-1-1520-FC	15.2	16	45	65	115
MS-AT1-03-1-1530-FC	15.3	16	45	65	115

### L/D - 3 (Internal Coolant)



units in mm

CODE	DC	DCON	LU	LCF	OAL
MS-AT1-03-1-1540-FC	15.4	16	45	65	115
MS-AT1-03-1-1550-FC	15.5	16	45	65	115
MS-AT1-03-1-1560-FC	15.6	16	45	65	115
MS-AT1-03-1-1570-FC	15.7	16	45	65	115
MS-AT1-03-1-1580-FC	15.8	16	45	65	115
MS-AT1-03-1-1590-FC	15.9	16	45	65	115
MS-AT1-03-1-1600-FC	16	16	45	65	115
MS-AT1-03-1-1610-FC	16.1	18	51	73	123
MS-AT1-03-1-1620-FC	16.2	18	51	73	123
MS-AT1-03-1-1630-FC	16.3	18	51	73	123
MS-AT1-03-1-1640-FC	16.4	18	51	73	123
MS-AT1-03-1-1650-FC	16.5	18	51	73	123
MS-AT1-03-1-1660-FC	16.6	18	51	73	123
MS-AT1-03-1-1670-FC	16.7	18	51	73	123
MS-AT1-03-1-1680-FC	16.8	18	51	73	123
MS-AT1-03-1-1690-FC	16.9	18	51	73	123
MS-AT1-03-1-1700-FC	17	18	51	73	123
MS-AT1-03-1-1710-FC	17.1	18	51	73	123
MS-AT1-03-1-1720-FC	17.2	18	51	73	123
MS-AT1-03-1-1730-FC	17.3	18	51	73	123
MS-AT1-03-1-1740-FC	17.4	18	51	73	123
MS-AT1-03-1-1750-FC	17.5	18	51	73	123
MS-AT1-03-1-1760-FC	17.6	18	51	73	123
MS-AT1-03-1-1770-FC	17.7	18	51	73	123
MS-AT1-03-1-1780-FC	17.8	18	51	73	123
MS-AT1-03-1-1790-FC	17.9	18	51	73	123
MS-AT1-03-1-1800-FC	18	18	51	73	123
MS-AT1-03-1-1810-FC	18.1	20	55	79	131
MS-AT1-03-1-1820-FC	18.2	20	55	79	131
MS-AT1-03-1-1830-FC	18.3	20	55	79	131
MS-AT1-03-1-1840-FC	18.4	20	55	79	131

### L/D - 3 (Internal Coolant)



units in mm

CODE	DC	DCON	LU	LCF	OAL
MS-AT1-03-1-1850-FC	18.5	20	55	79	131
MS-AT1-03-1-1860-FC	18.6	20	55	79	131
MS-AT1-03-1-1870-FC	18.7	20	55	79	131
MS-AT1-03-1-1880-FC	18.8	20	55	79	131
MS-AT1-03-1-1890-FC	18.9	20	55	79	131
MS-AT1-03-1-1900-FC	19	20	55	79	131
MS-AT1-03-1-1910-FC	19.1	20	55	79	131
MS-AT1-03-1-1920-FC	19.2	20	55	79	131
MS-AT1-03-1-1930-FC	19.3	20	55	79	131
MS-AT1-03-1-1940-FC	19.4	20	55	79	131
MS-AT1-03-1-1950-FC	19.5	20	55	79	131
MS-AT1-03-1-1960-FC	19.6	20	55	79	131
MS-AT1-03-1-1970-FC	19.7	20	55	79	131
MS-AT1-03-1-1980-FC	19.8	20	55	79	131
MS-AT1-03-1-1990-FC	19.9	20	55	79	131
MS-AT1-03-1-2000-FC	20	20	55	79	131