

ISO 4343:2000-10 (E)

Industrial automation systems - Numerical control of machines - NC processor output; Post processor commands

Contents		Page
Foreword		viii
Introduction		ix
1	Scope	1
2	Normative references	1
3	Co-ordinate system	1
3.1	Part program reference	1
3.2	Machine program reference	1
3.3	Units of measure	2
4	General structure of post processor commands	2
4.1	NC processor	2
4.2	CLDATA	2
4.3	Post processor	3
5	General language	6
5.1	General comments	6
5.2	The ADAPTV command	8
5.3	The AIR command	9
5.4	The APPLY command	10
5.5	The AUXFUN command	11
5.6	The BREAK command	12
5.7	The CALSUB command	13
5.8	The CLAMP command	14
5.9	The CLDATA command	15
5.10	The COUPLE command	16
5.11	The CUTCOM command	17
5.12	The DEFSUB command	18
5.13	The DELAY command	19
5.14	The DISPLY command	20
5.15	The END command	21
5.16	The ENDSUB command	22
5.17	The FEDRAT command	23
5.18	The GOHOME command	26
5.19	The GOPARK command	27
5.20	The HOMEPT command	28
5.21	The INCLUD command	29
5.22	The INSERT command	30
5.23	The LEADER command	31
5.24	The LIMIT command	32
5.25	The LOCATE command	33
5.26	The LPRINT command	34
5.27	The MACHIN command	35
5.28	The MATERL command	36
5.29	The MCHFIN command	37
5.30	The MCHTOL command	38
5.31	The MODE command	39
5.32	The MOVETO command	43

5.33	The OPSKIP command	44
5.34	The OPSTOP command	45
5.35	The ORIGIN command	46
5.36	The PARKPT command	47
5.37	The PARTNO command	48
5.38	The PPFUN command	49
5.39	The PPRINT command	50
5.40	The PPTIME command	51
5.41	The PREFUN command	52
5.42	The RAPID command	53
5.43	The RESET command	54
5.44	The REWIND command	55
5.45	The SAFPOS command	56
5.46	The SEQNO command	57
5.47	The STOP command	58
5.48	The SYNCTR command	59
5.49	The TLLIFE command	61
5.50	The TMARK command	62
5.51	The TRANS command	63
6	Die sinking EDM language	64
6.1	General comments	64
6.2	The APPLY command	65
6.3	The CUTCOM command	66
6.4	The FLUSH command	69
6.5	The GENRTR command	72
6.6	The LOAD command	73
6.7	The OP command	74
6.8	The SELECT command	78
6.9	The SPINDL command	79
6.10	The TOOLNO command	83
6.11	The UNLOAD command	84
7	Flame cutting language	85
7.1	General comments	85
7.2	The APPLY command	86
7.3	The ASSIST command	87
7.4	The CLDIST command	88
7.5	The PIERCE command	89
7.6	The TORCH command	90
8	Grinding language	91
8.1	General comments	91
8.2	The APPLY command	92
8.3	The DRESS command	93
9	Laser-beam machining language	94
9.1	General comments	94
9.2	The APPLY command	95
9.3	The ASSIST command	96
9.4	The CLDIST command	97
9.5	The CYCLE command	98
9.6	The PIERCE command	101
10	Milling and drilling language	102
10.1	General comments	102
10.2	The APPLY command	103
10.3	The ARCSLP command	104
10.4	The CLAMP command	105
10.5	The CLEARP command	106
10.6	The COOLNT command	107
10.7	The CUTCOM command	108

10.8	The CYCLE command	111
10.9	The HEAD command	133
10.10	The INDPOS command	134
10.11	The LINTOL command	135
10.12	The LOAD command	136
10.13	The ORIGIN command	137
10.14	The RETRACT command	140
10.15	The ROTATE command	141
10.16	The SELECT command	142
10.17	The SPINDL command	143
10.18	The TOOLNO command	147
10.19	The UNLOAD command	148
11	Punching and forming language	149
11.1	General comments	149
11.2	The APPLY command	150
11.3	The CLAMP command	151
11.4	The CYCLE command	152
11.5	The LOAD command	163
11.6	The PIERCE command	164
11.7	The SELECT command	165
11.8	The TOOLNO command	166
11.9	The UNLOAD command	168
12	Turning language	169
12.1	General comments	169
12.2	The APPLY command	171
12.3	The BARFED command	172
12.4	The CATCHR command	173
12.5	The CHUCK command	174
12.6	The CLAMP command	176
12.7	The COOLNT command	179
12.8	The COUPLE command	180
12.9	The CUTCOM command	181
12.10	The DEFCON command	182
12.11	The LOAD command	183
12.12	The MODE command	184
12.13	The OP command	185
12.14	The PITCH command	195
12.15	The SAFETY command	196
12.16	The SELECT command	197
12.17	The SPINDL command	198
12.18	The STAN command	202
12.19	The STDYRS command	203
12.20	The TLSTCK command	204
12.21	The TOOLNO command	205
12.22	The TURRET command	206
12.23	The UNLOAD command	207
13	Wire EDM language	208
13.1	General comments	208
13.2	The APPLY command	209
13.3	The CLDIST command	210
13.4	The CUTCOM command	211
13.5	The CYCLE command	212
13.6	The FLUSH command	215
13.7	The GENRTR command	218
13.8	The LOAD command	219
13.9	The ORIGIN command	220
13.10	The SELECT command	221
13.11	The STAN command	222
13.12	The TOOLNO command	223

13.13	The UNLOAD command	224
14	Probing language	225
14.1	General comments	225
14.2	The APPLY command	226
14.3	The LOAD command	227
14.4	The MODE command	228
14.5	The PROBE command	231
14.6	The SELECT command	237
14.7	The TOOLNO command	238
14.8	The UNLOAD command	239
14.9	The VERIFY command	240
15	Drafting and plotting language	250
15.1	General comments	250
15.2	The DRAFT command	251
15.3	The LETTER command	252
15.4	The OVPLOT command	253
15.5	The PENDWN command	254
15.6	The PENUP command	255
15.7	The PLOT command	256
	Annex A (normative) Rules used in the syntax definitions	258
	Annex B (normative) List of keywords	259