

## The GP-GL command list

\*=support P=Partial compatible N=NOP X=No support

### Plots line

Command	Data format	CraftRoboPro S	CE5000-60	CE5000-120	Remarks
D (DRAW)	Dx1,y1,x2,y2.....xn,yn[t]	*	*	*	
E (RELATIVE DRAW)	EΔx1,Δy1,Δx2,Δy2.....Δxn,Δyn[t]	*	*	*	
M (MOVE)	Mx,y,	*	*	*	
O (RELATIVE MOVE)	OΔx,Δy,	*	*	*	
MP (MOVE POLAR)	MP r, θ [t]	*	*	*	
DP (DRAW POLAR)	DP r1,r2,θ2...rn,θn[t]	*	*	*	
EP (RELATIVE DRAW POLAR)	EPΔr,θ[t]	*	*	*	
OP (RELATIVE MOVE POLAR)	OPΔr,Δθ[t]	*	*	*	
RP (RADIUS PLOT)	RP0,i1,i2	*	*	*	

### Character and symbol

Command	Data format	CraftRoboPro S	CE5000-60	CE5000-120	Remarks
P (PRINT)	Pc1,c2...cn[t]	*	*	*	
K (KANA(GREEK))	Kc1,c2...cn[t]	*	*	*	
N (MARK)	Nn,	*	*	*	
SP (SELECT POINT MARK)	SPc[t]	*	*	*	
( (USER'S PATTERN)	(n1,n2...nn[t]	N	N	N	
(P (USER'S PROGRAM PATTERN)	(P[p,]Δx1,Δy1,[p,]Δx2,Δy2...:[p,]Δxn,Δyn	*	*	*	

### Circle and curve

Command	Data format	CraftRoboPro S	CE5000-60	CE5000-120	Remarks
WP (3-POINT CIRCLE)	WP x1,y1,x2,y2,x3,y3[,d][t]	*	*	*	
W (CIRCLE)	Wx0,y0,r1,r2,θ1,θ2[,d][t]	*	*	*	
 (RELATIVE CIRCLE)	r1,r2,θ1,θ2[,d][t]	*	*	*	
Y (CURVE)	Ya,x1,y1,x2,y2...xn,yn[t]	*	*	*	
_ (RELATIVE CURVE)	_a,Δx1,Δy1,Δx2,Δy2...Δxn,Δyn[t]	*	*	*	
) (ELLIPSE)	)a,x0,y0,r1,r2,θ1,θ2,θ3	*	*	*	
BZ (BEZIER CURVE)	BZ a,x1,y1,x2,y2,x3,y3,x4,y4[,d][t]	*	*	*	

### Line specification

Command	Data format	CraftRoboPro S	CE5000-60	CE5000-120	Remarks
L (LINE TYPE)	Lp,	*	*	*	
B (LINE SCALE)	Bl,	*	*	*	

**Character and symbol specification**

Command	Data format	CraftRoboPro S	CE5000-60	CE5000-120	Remarks
\$ (FONT)	\$n,(m,)	*	*	*	
S (ALPHA SCALE)	Sn,(m,)	*	*	*	
Q (ALPHA SPACE)	Ql(k,)	*	*	*	
R (ALPHA ROTATE)	Rθ,	*	*	*	
I (ALPHA ITALIC)	Ip,	*	*	*	
LP (LABEL POSITION)	LPn[t]	*	*	*	
A (ALPHA RESET)	A	*	*	*	
RC (REPLOTT CHARACTER)	RC c,x1,y1,[P,]x2,y2,[P1,]...xn,yn[t]	*	*	*	

**Control**

Command	Data format	CraftRoboPro S	CE5000-60	CE5000-120	Remarks
H (HOME)	H	*	*	*	
^ (OFFSET)	^x,y,	*	*	*	
^P (OFFSET POLAR)	^Px,y,[θdegrees[f][t]]	*	*	*	
J (NEW PEN)	Jn,(m)	n from 1 to 8	n from 1 to 8	n from 1 to 8	
! (SPEED)	!l,[n][t]	l from 1 to 10 from 101 to 140 n from 1 to 8	l from 1 to 10 from 101 to 160 n from 1 to 8	l from 1 to 10 from 101 to 160 n from 1 to 8	l<11: V = l x (Max Speed / 10) l>100: V = l - 100
* (PEN ACCELERATION & FORCE)	* a,f,[n] [t]	a from 1 to 3 f from 1 to 31 n from 1 to 8	a from 1 to 3 f from 1 to 31 n from 1 to 8	a from 1 to 2 f from 1 to 38 n from 1 to 8	A=a * 0.5(G)
FC (CUTTER OFFSET)	FC p,q,[n] [t]	*	*	*	
FD (BLADE ROTATION CONTROL)	FD θ [t]	*	*	*	
\ (WRITE LOWER LEFT)	\x,y,	*	*	*	
Z (WRITE UPPER RIGHT)	Zx,y,	*	*	*	
/ (ROTATE)	/x,y,θ,	*	*	*	
> (CLIPPING)	>x1,y1,...;xn,yn[t]	*	*	*	

Command	Data format	CraftRoboPro S	CE5000-60	CE5000-120	Remarks
& (FACTOR)	&p,q,r,	*	*	*	

SO (SET ORIGIN)	SO n	N	N	N	
T (BUZZER)	T n	*	*	*	
F (CHART FEED)	F l[t]	*	*	*	

**Output coordinates**

Command	Data format	CraftRoboPro S	CE5000-60	CE5000-120	Remarks
G (GIN)	G	*	*	*	
C (CALL GIN)	C	*	*	*	
? (READ OFFSET)	?	*	*	*	
[ (READ LOWER LEFT)	[	*	*	*	
U (READ UPPER RIGHT)	U	*	*	*	

**Interface control**

Command	Data format	CraftRoboPro S	CE5000-60	CE5000-120	Remarks
V (READ STATUS WORD1)	V	*	*	*	
@ (READ STATUS WORD2)	@	*	*	*	
# (READ STATUS WORD3)	#	*	*	*	
= (TERM)	=t1,t2	*	*	*	
" (ERROR MASK)	"m,	*	*	*	
: (CLEAR)	:	*	*	*	
; (INTERFACE CLEAR)	;	*	*	*	
BS (BUFFER SIZE)	BS s1,s2,s3,s4	N	N	N	

**Graph**

Command	Data format	CraftRoboPro S	CE5000-60	CE5000-120	Remarks
X (AXIS)	Xp,q,r,[t1,t2][t]	*	*	*	
% (HATCHING)	%n,x,y,d,θ[t] (n=1...3)	*	*	*	
	%n,r1,r2,θ1,θ2,d,θ[t] (n=11...13)	*	*	*	
	%n,d,θ,x1,y1,...;xn,yn[t] (n=21...23)	*	*	*	