





If Bx LO By LO,
$$\dot{\Theta}_{D_1}$$
CO $\dot{\Theta}_{D_2}$ 70

 $|\dot{\Theta}_{O_1}| < |\dot{\Theta}_{D_2}|$

Each movement to be achieved in a fixed time, t

 $dx = Horizontal$ movement = $|\dot{\Theta}_{Greater}| - |\dot{\Theta}_{Lesser}|$) dt
 $dy = Vertical$ movement = $|\dot{\Theta}_{Lesser}| + \frac{1}{2} dx$
 $By = S_L \cdot \int_0^t \dot{\Theta}_{Lesser} dt + S_L \cdot \int_0^t \dot{Z} dx$
 $By = (\dot{\Theta}_{Lesser} \cdot S_L \cdot t) [mm] + \frac{1}{2} (\dot{\Theta}_{Greater} - \dot{\Theta}_{Lesser}) \cdot S_L \cdot t$
 $By = \dot{\Theta}_{Lesser} \cdot S_L \cdot t + \frac{1}{2} \dot{\Theta}_{Greater} \cdot S_L \cdot t - \frac{1}{2} \dot{\Theta}_{Lesser} \cdot S_L \cdot t$
 $By = \frac{1}{2} \cdot S_L \cdot t \cdot (\dot{\Theta}_{Greater} + \dot{\Theta}_{Lesser}) (mm)$
 $Bx = [\dot{\Theta}_{Greater} - |\dot{\Theta}_{Lesser}|) S_L \cdot t$
 $\dot{\Theta}_{Greater} \cdot S_L \cdot t = Bx + \dot{\Theta}_{Lesser} \cdot S_L \cdot t$
 $\dot{\Theta}_{Greater} = \frac{Bx}{S_L \cdot t} + \dot{\Theta}_{Lesser} \cdot S_L \cdot t$
 $\dot{\Theta}_{Greater} = \frac{Bx}{S_L \cdot t} + \dot{\Theta}_{Lesser} \cdot S_L \cdot t$

$$By = \frac{1}{z} \cdot S_L \cdot t \left(\frac{Bx}{S_L t} + z \dot{\Theta}_{Lesser} \right)$$

$$By = \frac{1}{z} \cdot Bx + \dot{\Theta}_{Lesser} \cdot S_L \cdot t$$

$$\dot{\Theta}_{Greater} = \frac{By}{S_L \cdot t} + \frac{By}{S_L \cdot t} - \frac{1}{z} \cdot Bx$$

$$\dot{S}_L \cdot t$$

$$\dot{\Theta}_{Greater} = \frac{By}{S_L \cdot t} + \frac{1}{z} \cdot Bx$$

$$\dot{S}_L \cdot t$$

$$\dot{\Theta}_{Greater} = \frac{By}{S_L \cdot t} + \frac{1}{z} \cdot Bx$$

$$\dot{S}_L \cdot t$$

$$\dot{\Theta}_{Greater} = \frac{Constant}{Constant}$$

$$By = \dot{\Theta}_{Lesser} \cdot S_L \cdot t + \frac{1}{z} \cdot (\dot{\Theta}_{Greater} - \dot{\Theta}_{Lesser}) \cdot S_L \cdot t$$

$$\dot{B}y = \frac{1}{z} \cdot S_L \cdot t \cdot (\dot{\Theta}_{Greater} + \dot{\Theta}_{Lesser}) \cdot (mm)$$

Code outline	
Bx, = x coordinate - initial position By, = y coordinate - initial position	
$B_{Xz} = Designated x - coordinate$ $B_{Yz} = Designated y - coordinate$	
$Dx = Bx_z - Bx_i$ $Dy = By_z - By_i$	
Lateral Movement	
If Dx = 0 & Dy>0 If Dx >0 & Dy = 0 \(\hat{\theta}_1 < 0 \\hat{\theta}_2 > 0 \\\hat{\theta}_2 > 0 \\\hat{\theta}_1 > 0 \\\hat{\theta}_2 = 0 \\\hat{\theta}_2 > 0 \\\hat{\theta}_2	
If $D_X = 0$ \(D_Y < 0 \) If $D_X \angle 0$ \(D_Y = 0 \) $\dot{\Theta}_1 \angle 0$ \(\delta \delta _Z \alpha 0 \)	

Diagono	Movement		
If D _X	20 & Dy > 0	If Dx70 & Dy70	
6,40	$\tilde{\Theta}_7 > O$	6,20 Bz>0	
IĠ _I I	> 16/21	$ \dot{\Theta}_1 \leq \dot{\Theta}_2 $	
If Dx	20 & Dy < 0	If Dx>0 & Dy<0	
6,70	Θ̈́ζ <o< td=""><td>6,70 6,40</td><td></td></o<>	6,70 6,40	
$ \mathcal{B}_t $	< 16 ₂		