

Application Example

➤ Linear, Cosine, Parabolic, & Custom motion profiles

Figure 4 describes **Linear, Cosine, Parabolic and Custom motion profiles** found in all OMS controllers. Linear acceleration is the default and is used most often. Cosine or "S" curve profiles offer the smoothest start-stop transition for conveying liquids and top heavy loads. Parabolic acceleration profiles may be used to quickly pass through mechanically resonant points during acceleration and deceleration.

AX * Address X axis
AC10000 * Accelerate 10,000 pps/s
VL5000 * Constant velocity 5,000 pps
PF * Use default linear profile
MA75000; GO * Move Absolute 75,000 steps

AX
AC10000
VL5000
CN * Switch to Cosine profile
MA75000; GO

AX
AC10000
VL5000
PN7 * Use 7 step Parabolic curve
MA75000; GO

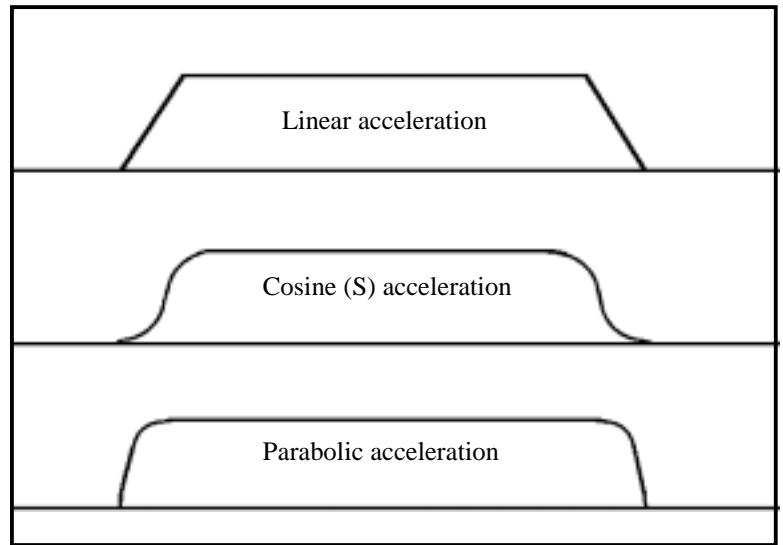


Fig 4

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