

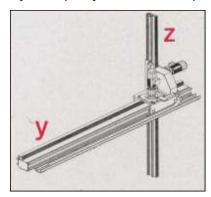


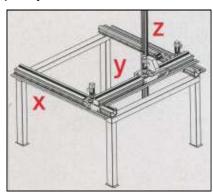
## **Design Criteria for Multi-Axis Systems**

The schematics below represent various axis for movement. When describing the system needs, some basic concepts will identify parameters. For the drive mechanism, the X-axis is typically the long run length. The Y-axis is the width and Z-axis is the vertical stroke. Other helpful criteria is the length (in or mm) of movement or stroke for each axis, speed (in/sec or mm/sec) of the stroke desired, and acceleration (in/sec<sup>2</sup> or mm/sec<sup>2</sup>) if any. Also identify the frequency of stroke in times per hour or per day.



Type of Application:





. ) po o . / (pp.) out. o						
Stroke:	X	in or mm	Y	in or mm	z	in or mm
Speed:	X	in/sec or mm/sec	Y	in/sec or mm/sec	Z	in/sec or mm/sec
Acceleration:	X	in/sec <sup>2</sup> or mm/sec <sup>2</sup>	Y	in/sec² or mm/sec²	Z	in/sec <sup>2</sup> or mm/sec <sup>2</sup>
Position Accuracy:	X +/	in or mm	Y +/	in or mm	Z +/	in or mm
Motor: □ AC Motor Frequency Controlled □ Servo Load Lbs or N Cycle Rate						cycles/hour
Other: (Ambient Condit	ions, etc., that r	may impact function)		·····		
Criteria for l	Lift Syst	ems				
8		B		E.		
1. Load Frame	2	. Conveyor	;	3. Frame with Forks		<b>✓</b>
Type 1, 2 or 3 or other	(Describe)					
B =	in or mm					
Load: Load Center: Stroke: S = in or mm						
Max Height of Load Fra	ame: H =	in	or mm			S
Motor - AC Frequency	Controlled or S	ervo Top	mount or F	oor level		
Lifting Speed:	ft/s	sec or m/sec Cycle Rate	:	Cycles Per Hour		
Fail Safe Brake: (y/n) _	Li	fting Sensors or Proximi	ty Switches	:		
Mechanical Locking Sy	/stem:	Standby By D	rive			
Lift Mechanism Type:	□ Chain □ E	Belt ☐ Rack & Pinion	☐ Hydrau	ılic □ Other		
Describe Operating Co	nditions (Surro	unding Environment, Te	mps, Moistu	res, Contaminants, etc.,		
Drawing/Sketch availal	ble?)					