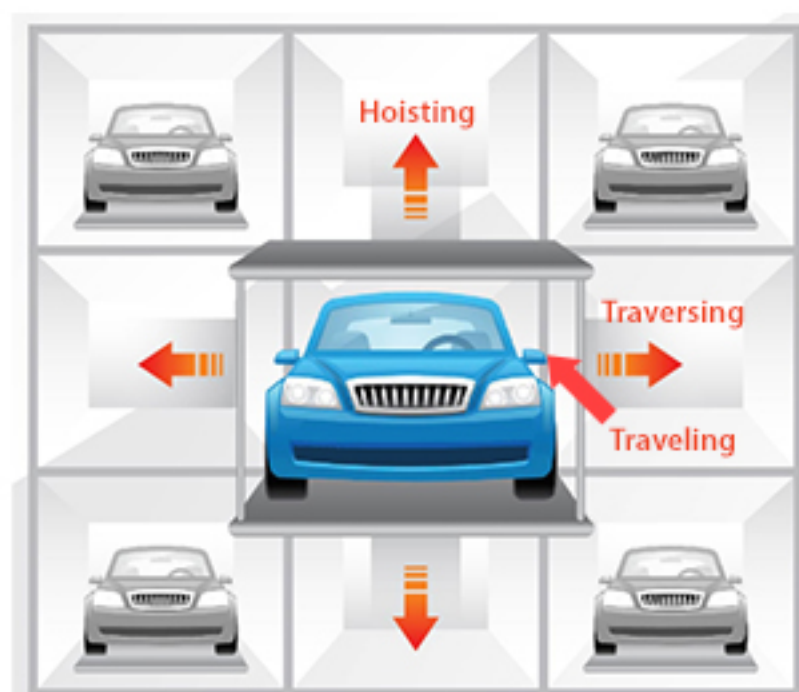


Application

Car Parking Systems

1) Overview

- Secure car parking systems by traveling, traversing, hoisting.
- Parking systems are variable like elevator type, cart type and so on.
- Cart type parking system.



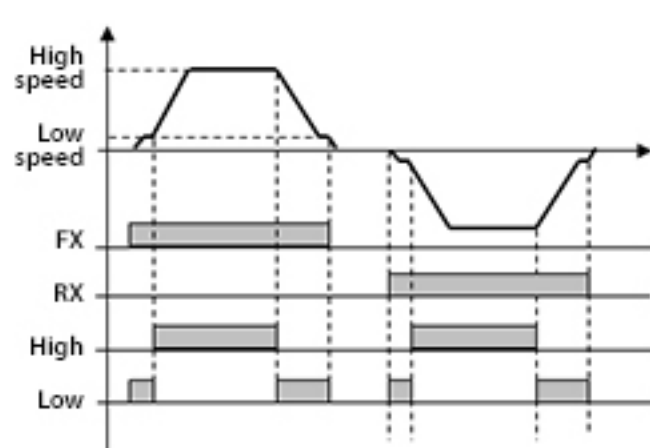
2) Requirements & Solutions

Issues & Requirements		LS Solutions
High torque at low speed	➔	V/F Control : Torque Boost (iS7) Sensorless & Sensored Vector Control (iS7, iV5)
Low Speed & High Speed Control	➔	Multi Step Frequency & JOG
Stable stop with minimum vibration	➔	S-Curve Function
Brake control for fall protection	➔	Brake Release Control Function

3) Key Functions

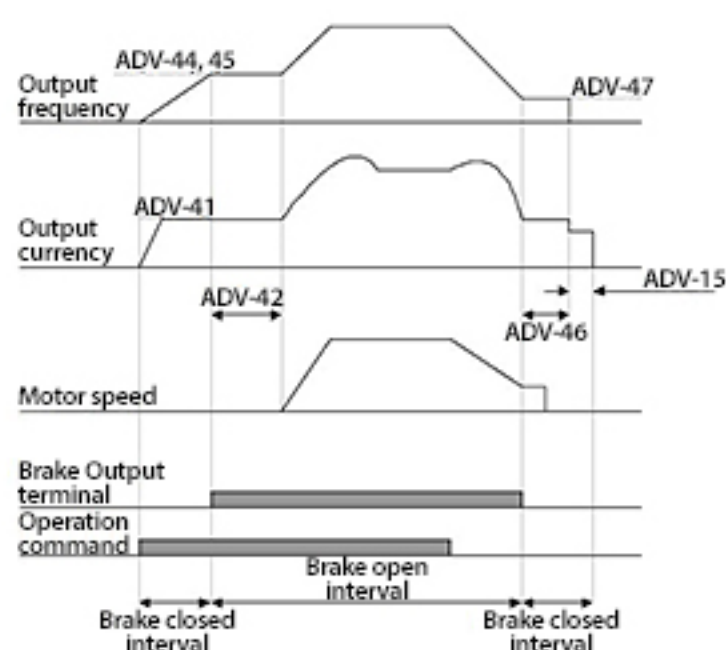
[Multi-step Frequency & S-curve]

- Stable speed control by low & High speed
- Low speed area for stable stop
- Minimum vibration using S-curve function



[Brake Release Control]

- Brake open & close using digital output signal
- Digital Output : 'BR Control'



When Control Mode Is Not Set at Vector

4) Cart Type Parking System Application

- HMI : XP50
- PLC : XGB-M04A, XGP-ACF2, XGK-CPUE, XGL-CH2A, XGI-D22A, XGQ-TR4A
- Drive : iS7

