Automatic Storage System
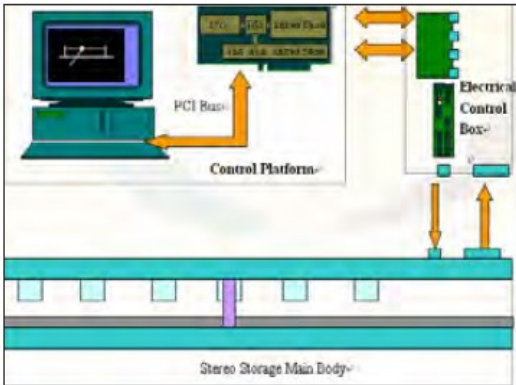
GOOGOL TECHNOLOGY Automatic Storage System consists of mechanic, electrical, control and management system, which covers all aspects of modern logistics technology, such as motion control, PLC control, database and network technology, etc. It is the indispensable subsystem of realizing modern automatic manufacturing and automatic logistics system. The automatic storage system developed by Googol Technology is based on storages systems that are similar to industrial ones. They are suitable for graduation design projects of technical institutes, course design, internship experiments, research of instructors, development and other requirements.

System Control Diagram

Control Software

Control software by VC (source code included)

Automatic storage system network control interface
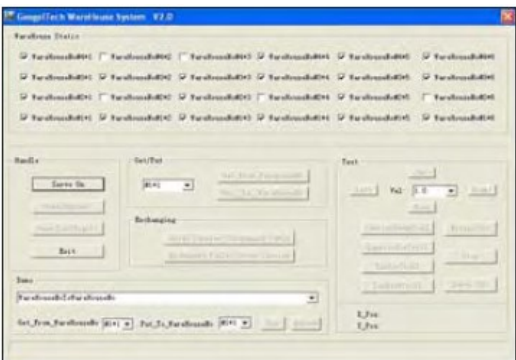
Major Components:

- Warehouse structure containing 24 storage bins
- Stacker Crane: 2AC servo motors for XY plane positioning, the cart is pneumatically actuated
- Exchange table: controlled by step motor
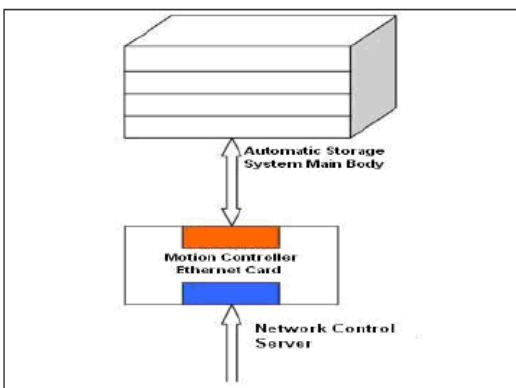- Electrical control module: motor driver + GT-400-SG motion controller

Technical Specification

Dimension (L x W x H)	1500 X 1167 X 1537 mm
Storage Bin Size	180 x 120 x 120 mm
Storage Bin Number	4 floors, 6 columns, total 24
Input Voltage	AC220V 50Hz
Max. Velocity	30m/min
Load per Storage Bin	2 Kg
Control Modes	Motion controller + AC servo motor
Operation Modes	Operate independently or remote monitoring

Ordering Guide

Model	Product Name	Product Configuration
GWH-2003	Small automatic storage system	Warehouse main structure containing 24 storage bins
		AC servo motor/step motor/pneumatically actuated device (with air pump)
		Open architecture motion controller
		Control and storage management software
GWH-2004	Small automatic storage system based on embedded system	Warehouse main structure containing 24 storage bins
		AC servo motor/step motor/pneumatically actuated device (with air pump)
		Googol embedded motion controller
		Control and storage management software