

## Application

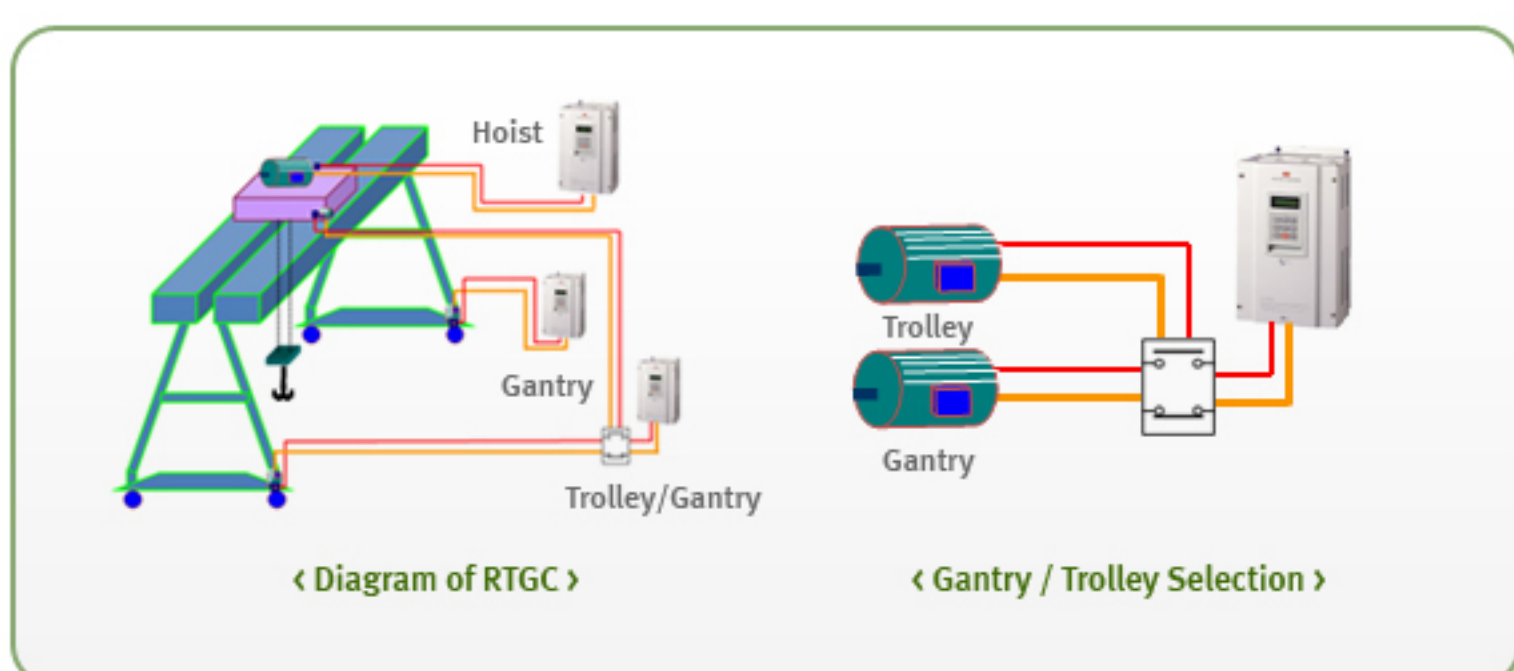
# Crane Applications

RTGC/Overhead Crane

- Among the various types of cranes, the representative Cranes that are applicable with Inverters are Overhead Cranes, Gantry Cranes, Tower Cranes and others
- Overhead Crane and RTGC(Rubber Tired Gantry Crane) Applications

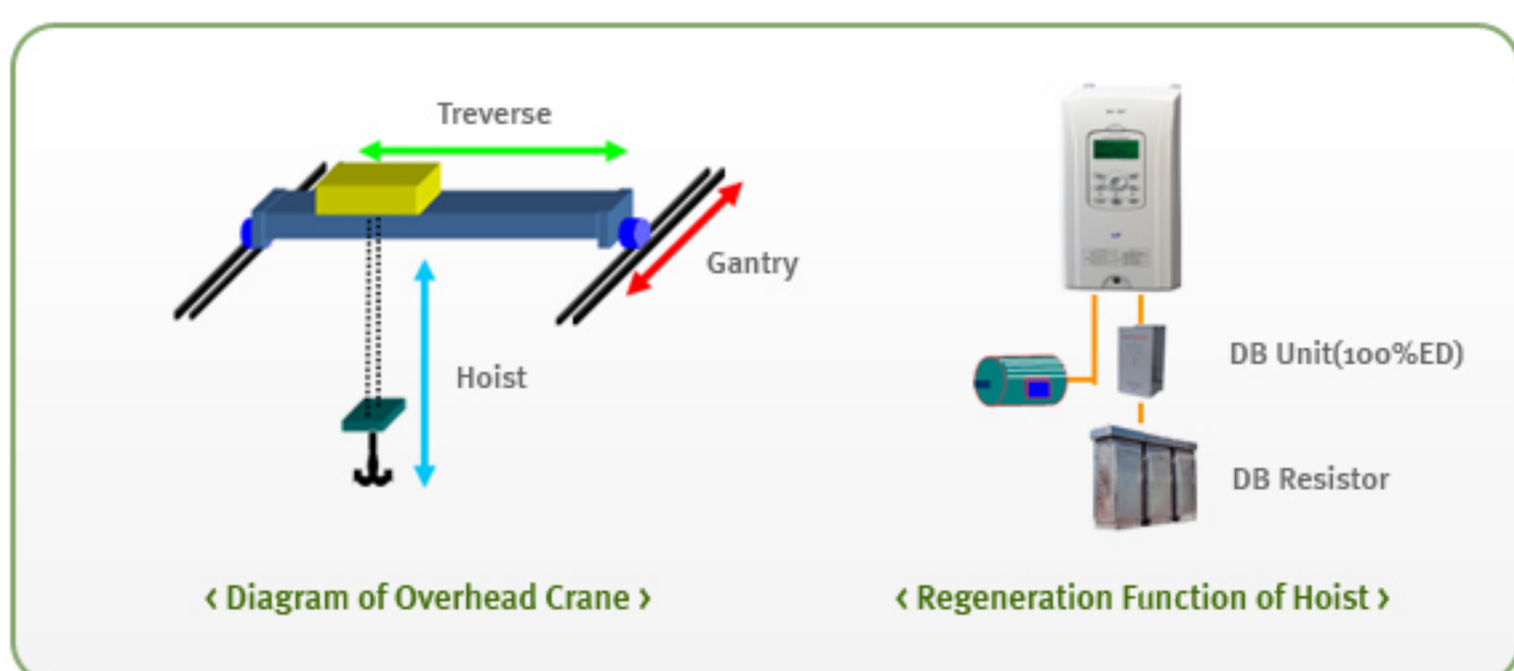
## RTGC(Rubber Tired Gantry Crane)

- The RTGC is a representative Harbor crane which has rubber tires that enable the crane to move freely at the yard. The RTGC has to be resistant to noise problems as it has no ground connection
- **Power optimization function to improve system efficiency**
- **Selection of Gantry or Trolley motor by communication**
- **Improvement of Power quality and Noise characteristics with PWM converter**
- **Torque enhancing and monitoring functions to improve start-up performance**



## Overhead Crane

- Generally used to move materials or products from one place to another in factories. The shape and size of the hook tends to vary according to the material to be relocated.
- **Hoisting, Traversing, Travelling Drive**
- **Travelling Drive: Multi motor control by one inverter**
- **Hoisting Drive: Powerful torque requirement and Mechanical brake control**
- **Powerful Regeneration capability: 100%ED Dynamic Brake Unit**



## Application case

### RTGC(Rubber Tired Gantry Crane)

#### Facility

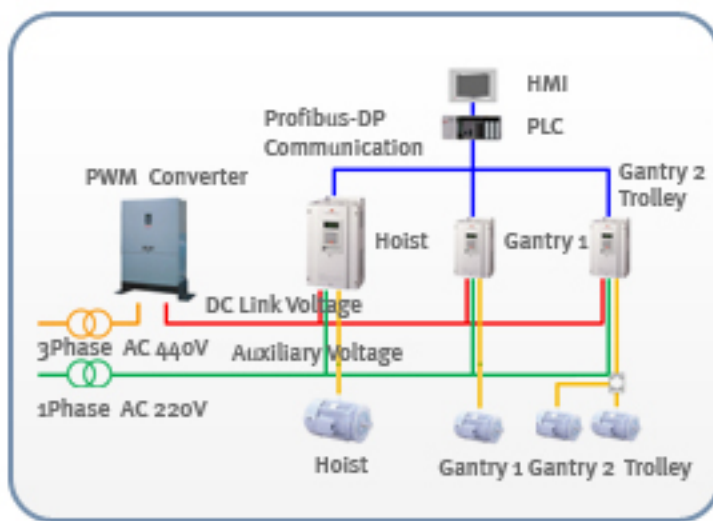
A Mobile type Crane used to load trucks with containers or move containers from one place to another in port facilities

#### Applied Products

- HMI(InfoU) 1Set, PLC(XGR) 1Set
- PWM Converter 1EA, Inverter 3EA, Motor 4EA

#### Key Functions

- Crane Optimized functions: Power optimization, Torque enhancing, Multi motor Control functions
- Adoption of PWM Converter for Noise characteristics
- Profibus-DP Communication for Credibility
- iV5 Sensored Vector Control



### Overhead Crane

#### Facility

Rail Fixed type Crane are installed in factories to Load and Unload trucks or move goods from one place to another

#### Applied Products

- Inverter 3EA, Motor 4EA

#### Key Functions

- Mechanical Brake Control
- 100%ED Dynamic Brake Unit
- Multi motor control for Travelling
- iS7 Sensorless Vector Control

