

# Hybrid Powered Forklift

The hybrid forklift combines internal combustion engines with electric motors, offering reduced emissions and fuel consumption. This construction machinery is designed for heavy-duty lifting and material handling in various industrial and outdoor environments.



## Product Overview

### Hybrid Innovation

This hybrid powered forklift utilizes a unique energy conversion system that optimizes engine performance while significantly reducing emissions and noise. By combining electric energy from an engine-powered generator with a variable hydraulic pump, the system intelligently regulates fuel consumption based on real-time operational demands. The result is a highly efficient, dynamic industrial vehicle that sets a new standard for eco-friendly material handling.

## Technical Specifications

|                     |   |
|---------------------|---|
| Drive System        | Hybrid (Engine-powered generator + Electric motor)              |
| Transmission Design | Electric linear drive axle with planetary wheel-side reducer    |
| Braking Technology  | Wet brake pad system with foot-operated parking brake           |
| Hydraulic System    | Variable hydraulic pump control for reduced reactive power loss |

## Design & Ergonomics

|               |  |
|---------------|--|
| Cab Features  | Curved arc columns, Spacious interior, Irregular section design, Enhanced visibility |
| Parking Brake | Foot-operated (Once for brake, twice for release)                                    |

## Safety & Compliance

### Safety Systems

- Overall stamping canopy guard
- Wet brake pad system
- Arc-design taillight assembly
- Enhanced protective structure

## Key Performance Metrics

### Efficiency Metrics

**1 Optimized**

Energy Conversion Efficiency

**0 Minimized**

System Reactive Power Loss