

# Tank Calibration System

This tank calibration system automatically generates volume charts, eliminating manual operations. It offers high-speed measurement and supports both oil loading and unloading for creating volume charts.



## ADDITIONAL IMAGES



## Overview

### Automated Tank Calibration Solution

This advanced tank calibration system provides a fully automated method for generating highly accurate volume charts for fuel storage tanks. It eliminates manual operation errors and significantly reduces calibration time, completing a 30 CBM tank in less than two hours. The system supports both loading and unloading processes, ensuring versatile application for various industrial and station requirements.

## Performance Metrics

### Key Performance Metrics

**0.3 %**

Volume Chart Error

**2 h**

Calibration Time (30 CBM)

**30 pts**

Min. Interruption Points

## System Features

### Core System Advantages

- Automatic volume chart generation without manual operation
- Bi-directional calibration (oil loading or unloading)
- Powerful data save mechanism to prevent loss
- Real-time measurement of oil height and refueling data
- Automatic system shutdown when oil reaches final height

## Hardware & Software

### Tank Calibration System

#### Hardware part

Fuel dispenser, Probe, controller, laptop computer, Printer

#### Software part

WINXP, Interbase, Tank table calibration system

The system automatically refuel without human intervention , measure oil height and refueling data from dispenser real-time.

Comprehensive system diagram showing the integration of the fuel dispenser, probe, controller, and calibration software.

#### Hardware Components

Fuel Dispenser, Probe, Controller, Laptop Computer, Printer

#### Software Environment

WINXP, Interbase, Tank Table Calibration System

## Data Management

#### Export Formats

Word • Excel • TXT

## Operational Parameters

#### Required Input Parameters

- Tank Number and Capacity
- Tank Diameter (max error 5cm)
- Deviation offset
- Collection mode (refueling/defueling)
- Final height
- Product type
- Measurement mode (intermittent refueling)

#### Truck Tank Calibration Requirements

Parameter	Requirement
Minimum Gaugeable Nadir	Not less than 100mm
Recommended Nadir Setup	200mm
Refueling Height Increment	Less than 1/30 of final height