

WOODFIELD

**SKID
SOLUTIONS**





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As a leading skid manufacturer, we custom-design solutions for safe, precise, and efficient operations. Our offerings include systems for loading, unloading, metering, blending, pumping, and chemical dosing & injection.

STANDARD FEATURES

TANKER TRUCK & RAIL WAGON LOADING & UNLOADING

Accurate and safe loading for custody & non-custody flow metering in accordance with OIML 117 and MID regulations.

Process safety considerations like vehicle earth monitoring, overfill detection, break away, etc.

Bottom loading skids along with Loading Arms on single frame.

Additional process safety with fire & gas detectors.

Multistream loading (max. 4 streams) is available on single skid frame.

Autonomous system with built in pump and skid mounted control system.

Return vapor measurement is available using vapor return arm or hose.

Fibre optics connectivity to control room.

Emergency stop device within the skid.

LNG TRUCK LOADING & UNLOADING

One stop solution for one of the most challenging application.

Smooth, accurate and efficient truck loading with minimal product loss.

In-house design and engineering capability using latest designing & analytical software to counter thermal effects.

Process safety considerations like vehicle earth monitoring, overfill detection, breakaway coupling.

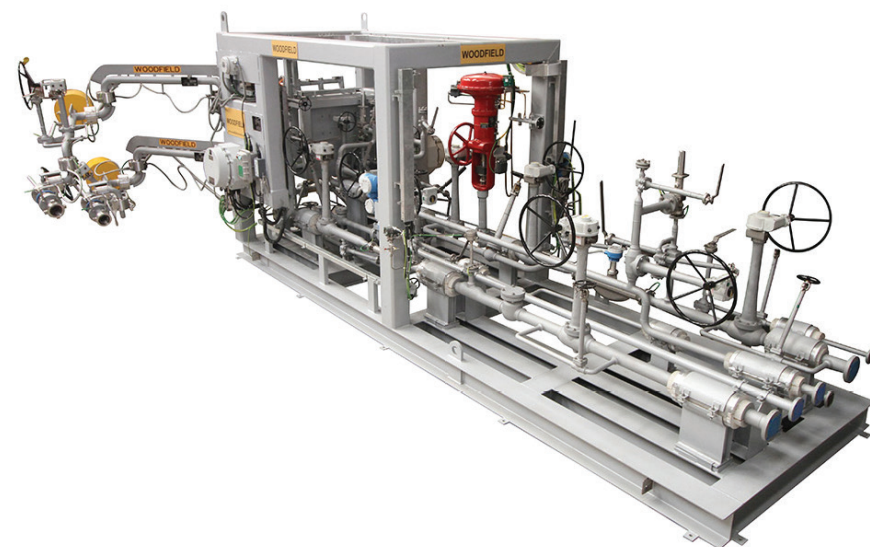
Semi automated or automated loading process control based on requirement.

Add on terminal automation solutions (hardwares and softwares) to cater plant automation requirement.

LNG tank truck unloading with cryogenic pump can be offered.

Emergency stop device within the skid.

End Connections options like DGC, CGA, ACME available.



LPG BLENDING

Fully integrated close loop system with online analyser to monitor and control the mixing process.

Reliable, accurate & efficient blending process operation.

Facility to customize blend ratio using keypad entry ranging from 20% to 80% of main product.

Complex process control of ratio blending made easy.

Optional integration of RVP analyser.

Custom flow capacities can be achieved.



TRUCK UNLOADING & PUMPING

Safe and reliable unloading process control with pump protection.

Safety consideration with vehicle earth monitoring & low flow monitoring.

Single point solution for your fluid transfer requirement with 3 phase pump starter panel on skid.

Skid mounted Gas detectors/sensors are available.

Accurate sizing and selection of pumps and other accessories.



LEASE AUTOMATIC CUSTODY TRANSFER (LACT) METERING

Precise metering using API / AGA regulations to meet custody transfer norms.

Manufacturing following ASME B 31.3 and B 31.8 practices.

Product heading using steam tracing, electrical tracing option available for viscous flow like heavy crude oil etc.

Skid mounted Gas detectors/sensors are available.

Cold Insulations available for Meter and Meter runs.

Emergency stop valve to meet site safety norms.

Control room mounted Cabinet for Flow Computer mounting.

Providing and Integration of analytical instruments (Density analyzer, BS & W Analyzers, Gas Chromatograph, etc.) depending upon the requirement.

Trolley mounted Master Meter Prover/Small volume prover system for proving of skid in line condition.

NATURAL GAS METERING

Selection of lines and equipment (Meter, Valves, etc.) sizing to get optimized benefit within the budget

It ensures the system is following all latest Gas metering standards and nomenclatures to achieve best uncertainty in flow measurements meeting OIML, MID, ONML and other custody transfer approvals.

We offer Orifice meter as per AGA 3, Turbine meters as per AGA 7, Coriolis Meters as per AGA 11 and Ultrasonic Gas Flow meters as per AGA 9 based on application, accuracy, and reliability requirement considering high pressure calibration.

Competent project and engineering team comes with (+) 35 years' experience in handling Gas metering pipeline projects.

We precisely follow all country specific (local) custody metering regulations, weights & measures and other norms.

We offer world class accessories like Gas Chromatograph, Analyzers, Sampling systems and Supervisory computers.



CHEMICAL DOSING & INJECTION

Skid is designed with pump protection device and associated interlocks.

Pump calibration local or remote (using DCS) is possible.

In-tank mixing facility is available with motor driven agitator.

Manual/automatic stroke adjustment.

CRYOGENIC FLUID LOADING & UNLOADING

Most advanced solution catering recent Technological changes and upgrades in cryogenic fluid handling to meet global energy requirement.

Optimized design to meet specific cryogenic temperature ranges.

Use of the latest software to address thermodynamic effects due to temperature variation.

Process automation for loading operation and plant based on customer needs.

Hydrogen tank truck unloading with cryogenic pump can be offered.

**WOODFIELD
SHIELD**

Woodfield Shield, our comprehensive after-sales support programme, is designed to efficiently maintain all active equipment produced by Woodfield Systems.

Post-handover, a customer can avail of priority technical support from a highly responsive team of experts. The Woodfield Shield team provides on-site and online support and is committed to quick turnaround time.

We manufacture all the spare parts needed for any Woodfield equipment.