

Ambyint InfinityRL

Rod Lift System



Closed-loop optimization for rod lift

InfinityRL is Ambyint's closed-loop rod lift optimization platform. Most platforms monitor and recommend, then wait on your team to act. InfinityRL closes the loop. It continuously learns every well, detects abnormal behavior early, and automatically executes optimized setpoints, 24/7 — increasing production, improving reliability, and freeing your team for higher-value work.

Increase worker productivity

Routine optimization runs automatically.

Improve reliability

Abnormal behavior detected early and acted on.

Optimize production

Optimized setpoints executed in real time.

Automate at scale

Consistent practice across the full portfolio.

Product features

Optimization surveillance

- Automated reports for informed decision-making
- Dashboards for quick issue identification and day planning
- Review key performance metrics for rod lift systems across all wells over time
- Monitor impact of ASPM over time for a single well or customizable well groupings

Dynacard-based anomaly detection

- Advanced AI to monitor equipment health and identify surface and downhole problems
- Reduce cycle time between an issue happening in the field and a resolution
- Identify downhole issues prior to major failure
- Enhance workover planning lead times
- Improve rod string design decision-making with downhole insights

Autonomous Setpoint Management (ASPM)

- Physics-informed AI calculations
- Daily classifications of wells that define optimization strategy
- Optimal controller setpoint recommendations for review
- Remote or autonomous setpoint updates
- User-defined boundaries to ensure the well is always operating within expected limits
- Idle time or speed changes to ensure pump efficiency and reliability

ROD LIFT CUSTOMER

+15%
oil production

MAJOR PRODUCER SAVED

\$1M
in labor costs

BAKKEN CUSTOMER

49x
return on investment

Requirements and capabilities

Customer requirements

POC types supported	Data requirements		SCADA
• Lufkin 1.0 • Lufkin 2.0 • Smarten • Weatherford-RPOC • Kenwell POC • BEPOC	Well data ◦ Well header ◦ Control system ◦ Downhole equipment ◦ Wellbore information ◦ Reservoir information	Time series data ◦ SPM ◦ Fillage ◦ Fluid load ◦ Min load ◦ Peak load	Vendor-agnostic. InfinityRL connects to whatever SCADA system you already have in place, with no need to switch platforms or add new infrastructure.

InfinityRL capabilities

Surveillance & analytics	Anomaly types	Setpoint management	HRAC edge device
• Well-specific analysis page • Dynacard viewer • Daily operations dashboard • Well review dashboards • Automated email reports ◦ Daily operations reports ◦ Weekly, monthly and quarterly management reports	• Deep rod part • Delayed traveling valve • Hole in barrel • Hole in tubing • Plunger undertravel • Stuck pump • Standing valve stuck open • Worn pump • Fluid pound • Gas interference • Tagging • Stuffing box friction • Bad or distorted cards	• Strokes per minute (SPM) • Idle time Adjusted automatically as well conditions change.	• Wi-Fi — 288 cards/day • LTE — 96 cards/day • SAT — 24 cards/day

About Ambyint

Ambyint supports upstream oil and gas companies through continuous production optimization. While most platforms monitor and recommend, Ambyint closes the full optimization loop — learning, detecting abnormal behaviour, and automatically executing optimized setpoints across entire well portfolios, 24/7. This helps lean teams increase output, improve reliability, and apply best practices at scale without adding headcount. Our team in Houston and Calgary supports producers across North America. Find out more at ambyint.com.