

THE VORNE XL PLATFORM

This product brief provides an overview of the Vorne XL product family.



Authorized XL Partner

DIGITAL TRANSFORMATION FOR ANY FACTORY

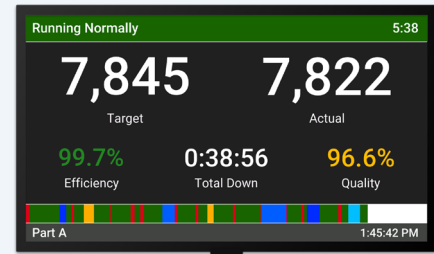
Integrated production monitor, scoreboard, and reporting suite. Easily scales from work center to enterprise.

XL automates and digitizes plant floor data collection, delivers robust analytics, and streamlines operator interactions. It's effective for all processes, even legacy equipment. Browser-based reporting exposes loss and unlocks insights in real time with no software to install. XL is a seamless IIoT appliance that is agile, smart, and scalable. Unbelievably fast to implement. Strikingly easy to use.



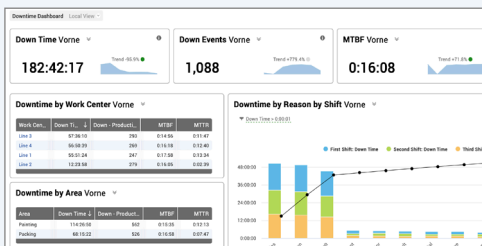
Collect Data Instantly with Any XL Model

It's easy to choose between XL models. Simply select your preferred visual interface for operators. Every model provides the same data foundation and reporting suite. Choose one or seamlessly mix and match based on the process.



Real-Time Insights on Your Plant Floor

Motivate your plant-floor team with a real-time scoreboard that automatically changes context based on the state of production. Visualize production and empower your operators to win the shift.



Powerful Historical Reporting

Every XL device includes an integrated reporting suite. Immediately leverage 140+ metrics, 20+ data dimensions, and 60+ built-in reports. Craft any number of custom reports using drag-and-drop widgets. Visualize your data, your way.



Integrate with Ease

XL includes a comprehensive REST API, as well as import, export, and barcode tools. Our partner ecosystem offers cost-effective prebuilt tools to dramatically simplify ERP, MES, OPC, PLC, Power BI, and other integrations.

WHY XL?

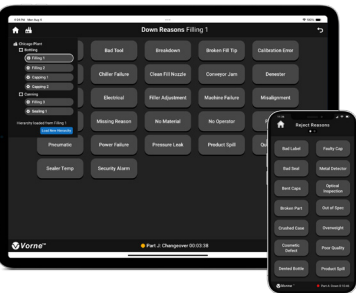
- No software to install
- No contracts to sign
- No recurring fees
- Unlimited users
- Free software updates
- Free technical support



Try XL in your factory for free with full tech support, no strings attached. Did you know? 92.8% of companies who try XL, buy XL. XL has 42,000+ installs in 45+ countries. Almost all began with a trial!

WELCOME TO THE FAMILY AN XL FOR EVERYONE

Build the smart factory of your dreams faster than you could ever imagine! Pick the optimal model for each process, and even mix and match across your factory and enterprise. While the way you interact with each XL model on the line slightly differs, they all provide the same rich collection of 140+ metrics, 20+ dimensions, and 60+ built-in reports.

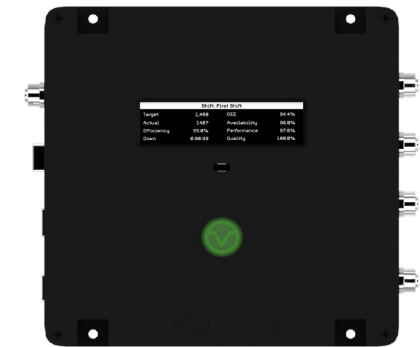


Every XL model features:

- Easy installation - be up and running in hours
- Digital I/O to directly monitor your process
- An extremely powerful, browser-based reporting suite
- Impactful plant floor visuals for operators
- An embedded database that stores multiple years of historical data
- A powerful 4-core processing engine with 40 GB of high endurance flash memory
- The free XL Sidekick app (iOS, Android) for local data entry and viewing

Plus, all of these features operate fully under your control, securely behind your firewall.

COMPACT, VERSATILE, AND INEXPENSIVE



XL HD

The most cost-effective way to monitor production.

XL HD (3" diagonal OLED) is our lowest-cost model with the same rich collection of 140+ metrics, 20+ dimensions, and 60+ built-in reports. Simply provide one or two digital inputs from your process, an HDMI TV or monitor for an instant plant-floor scoreboard, and a barcode scanner for operator interactions (or use the free XL Sidekick app).

Swipe in front of the OLED to let the gesture sensor take you on a journey through multiple screens full of real-time metrics (e.g., Shift, Part, and Production Event data) and other useful information (e.g., network connection and input status).



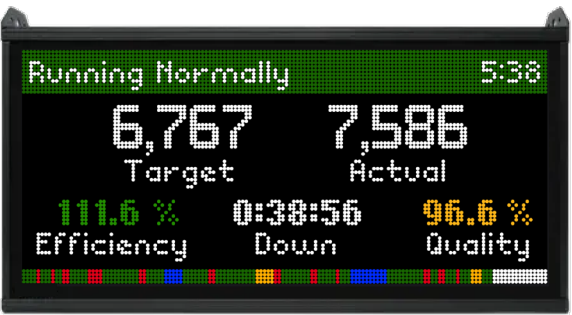
XL Touch

Operator interactions via touchscreen.

XL Touch (7" diagonal touchscreen) adds an interactive interface to make it even easier for operators to take action. Start and log production events, assign down and reject reasons, start jobs or parts, select teams, and more.

You can also use the touchscreen to view a variety of real-time metrics, and even the scoreboard view, right at the line. The touchscreen itself is purpose-built for harsh environments and features multi-touch capacitive technology.

INTEGRATED LED SCOREBOARD



XL LED

Fully-integrated, rugged industrial scoreboard.

XL LED (29" diagonal LED) shares the same rich collection of 140+ metrics, 20+ dimensions, and 60+ built-in reports, but also includes an integrated LED scoreboard. It's optimized for harsh industrial environments where you prefer not to use a TV or monitor as your operator scoreboard.

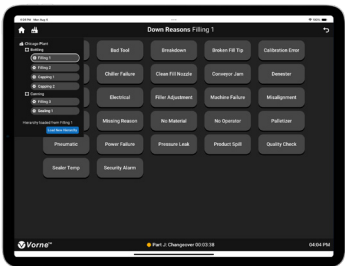
Select your favorite KPIs to feature on the super-bright, super-efficient display. Even with 9,216 LEDs it consumes less than 60W.



XL SIDEKICK YOUR ALL-ACCESS PASS

Interact with any of your XL devices with our free XL Sidekick app (iOS, Android). XL Sidekick enables you to use features from the XL Touch touchscreen on a tablet or smartphone - from anywhere in your plant. It works on your local network safely behind your firewall, just like your XL devices. Even better, it enables instant access to every XL device in your plant.

Use action screens to assign a reason when the line goes down, enter reject quantities, start the next job, and more. Use data screens to view detailed, real-time production data for the shift, part, and hour. Use the scoreboard screen to see exactly what operators on the line are seeing.



Actions



Data



Scoreboard

FREE TRIAL SEEING IS BELIEVING



Virtually every XL application starts with a free trial - we encourage it! And, we guide you every step of the way. With thousands of successfully completed trials, our trial process will take you far beyond up and running and deep into the realm of exploring actionable, impactful data.

It's easy. So easy that XL installs in hours by your existing maintenance staff. And if you have questions, our team of XL experts is available to you throughout the entire trial process and beyond. We'll guide you through configuration, training your team, leveraging the reporting suite, and much more.

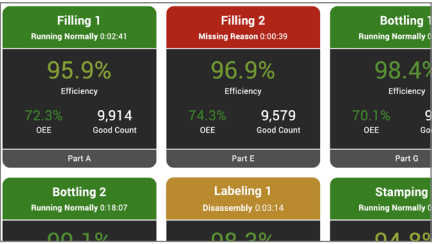
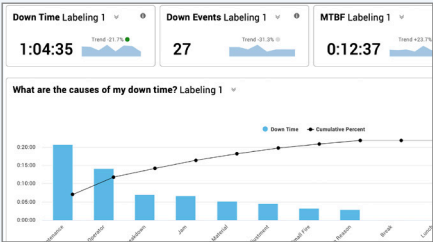
It's free. You only pay for XL if you choose to keep it. It's an easy offer for us to make, because almost everyone does! Nonetheless, if you decide XL is not for you, simply ship it back.

INTEGRATED REPORTING SUITE

Visualize and leverage 140+ metrics (counts, rates, cycle times, downtime, OEE, etc.) and 20+ data dimensions (hour, shift, team, part, work center, etc.) with XL's integrated reporting suite, which includes 60+ built-in reports. It's purpose-built for manufacturing and ready to help you drive immediate action. Explore your data with live controls. Pareto downtime. Identify trends. Analyze changeovers. Deep dive into your OEE. Visualize, prioritize, act.

Expose your true downtime and what's causing it.

Many companies are shocked to discover their true downtime. Automatic down detection coupled with easy reason assignment creates a precise picture. Quickly gain insights to decide where to focus your attention and resources.



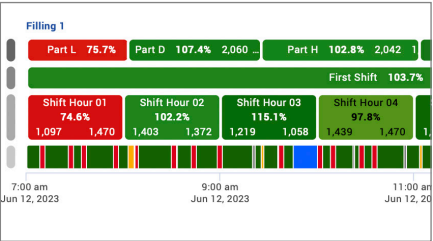
View manufacturing performance in real time.

See the real-time status of every process across your enterprise - on a browser, tablet, phone, TV. Data anywhere, data everywhere. Operators, managers, and leadership can proactively act during the shift to create immediate value.

Rank ↑	Top Loss	Lost Time
1	Performance Cycle Loss	1h 33m 14s
2	Quality Production Rejects	0h 22m 22s
3	Down Misalignment	0h 22m 19s
4	Down Pressure Leak	0h 19m 23s
5	Changeover Mixing	0h 17m 30s
6	Down Jam	0h 16m 49s
7	Down No Caps	0h 15m 11s
8	Changeover Material Change	0h 14m 52s
9	Down No Bottles	0h 13m 43s

Identify top losses, see exactly where to improve.

XL automatically curates your loss data into a continuous improvement roadmap. Prioritize corrective actions from highly accurate and deeply insightful data. Know what to fix, where to invest, and what is effective.

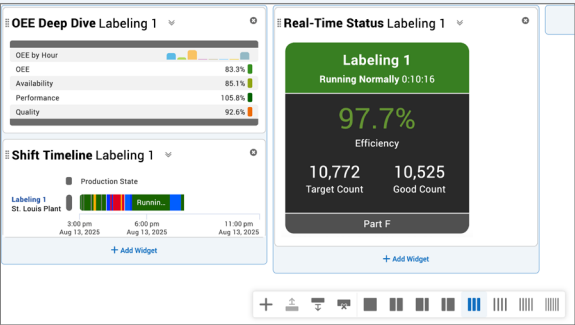


Identify patterns at a glance.

Spot shaky transitions. Downtime after breaks. Repetitive downtime after setup. Running slow after part changes. These are just a few examples of what you can instantly see with the Total Production Timeline.

ANY REPORT YOU CAN IMAGINE

Craft unlimited, powerful custom reports using drag-and-drop widgets. Replicate and automate your existing reports. Or create something entirely new and different. View the data you want to see, exactly how you want to see it. Filter. Sort. Compare. Contrast. Trend.



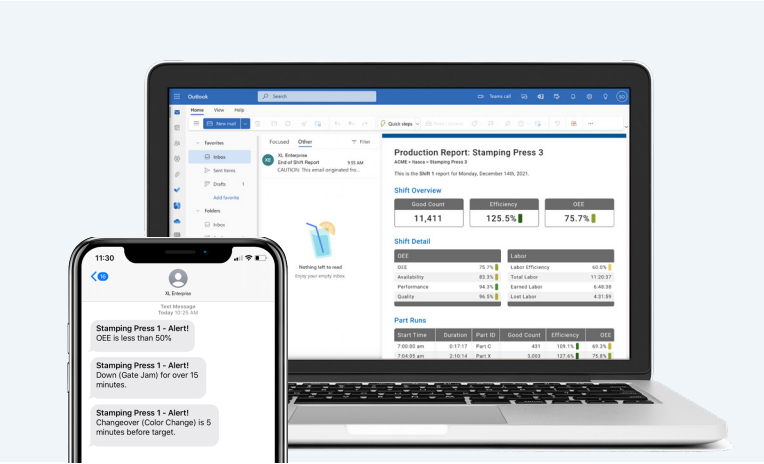
RIGHT INFORMATION, RIGHT PEOPLE, RIGHT TIME

Automated alerts and escalation.

Subscribe to alerts, such as line down, running slow, production below target, or OEE below expectations. Define thresholds to automatically escalate as appropriate to supervisors and managers.

Email reports.

Subscribe to email production reports sent on shift, day, week, and/or month boundaries. Include key metrics, comprehensive loss information, and part run summaries.



DRIVE ACTION ON THE PLANT FLOOR

Communicate expectations, win the shift.

Instantly see whether you are on track to reach your target for the shift. See event times, down reasons, remaining time for breaks, changeover targets, etc. Empower operators to course correct during the shift.

Make it your own.

Display one KPI (best viewing distance) to five KPIs (most information) to keep your operators focused on what matters most. Select from 140+ metrics and optionally label them using your own terminology.



FLEXIBLE INTEGRATION

Built-in tools.

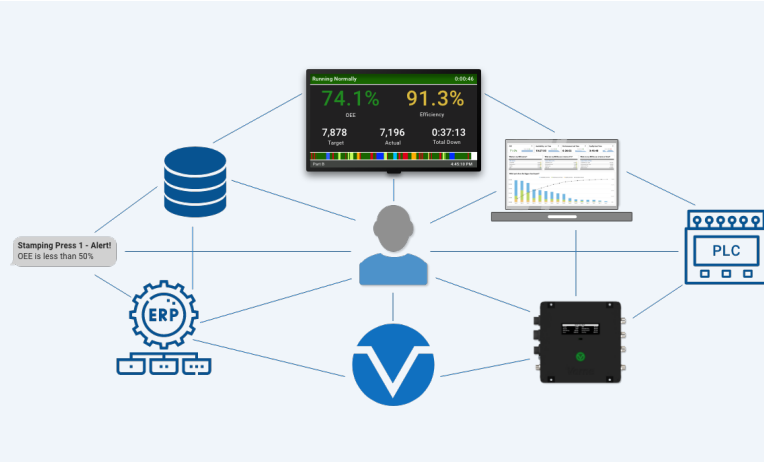
Includes features built directly into XL, such as Excel data export and arbitrary barcode matching for part numbers.

Built-in API.

Includes a REST API to directly integrate XL with other systems and applications.

Add-on tools.

A wide range of prebuilt third-party tools greatly simplify integration projects, such as integrating with ERP/MES, OPC, PLC, Power BI, and enterprise reporting systems.



IT PERSPECTIVE

XL products are highly integrated edge computing devices. Each has an extremely powerful processing engine with four 64-bit 1.4GHz processor cores, 40 GB of high endurance eMMC Flash (storing multiple years' worth of historical production data), embedded database, and web server. The OS is a Yocto-based Linux distribution designed for embedded and IoT devices. Security patches are included with software updates as appropriate.

No software needs to be installed in your existing infrastructure. Use Chrome (best performance), Edge, or Firefox browsers to access XL. Every XL device uses the same data model and software, and from an IT perspective is managed the same way. The data collection architecture is robust even in environments with frequent network outages.

XL Enterprise provides an additive set of services for XL devices, such as alerts and email reports. It is an entirely optional cloud-based application hosted by Vorne on AWS using data centers located in the USA. XL Enterprise caches production data ephemerally (there is no long-term storage of this data).

TECHNICAL SPECIFICATIONS

Processing Core (4) 64-bit, 1.4 GHz ARM A-53 Cores 40 GB Flash Memory 4 GB RAM	Communication Ports (1) IEEE 802.3, 10/100 Mbps, Auto-MDIX, RJ-45 Ethernet (1) 2.0 USB-A Host, 500 mA current @ 5 VDC (2.5 W) (1) HDMI Out 1.4	Environmental 0° to 50°C ambient 5% to 95% relative humidity (non-condensing)
Digital Inputs and Outputs (6) 5 to 24 VDC, Sink or Source (1) SPDT, 30 VDC at 1A, resistive load only relay output		Power 20 to 60 W (depending on model)

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