

# Think Inside the Box!



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Horner OEE Solution requires no development on the user end, just a simple setup on the touchscreen and you can start monitoring and collecting data in minutes!

### Overall Equipment Effectiveness...

Remote tools are available for management visibility of all work cells being monitored for OEE. These tools include datalogs and dedicated management screens independent of operator screens. Data is made available for management to analyze shift, day, week and even monthly production information.

### What is OEE?

OEE stands for Overall Equipment Effectiveness. It is the most commonly used manufacturing metric to understand, measure and improve current manufacturing production performance. OEE is expressed as a percentage and is calculated as the product of three other metrics - Availability, Performance and Quality.

**Availability (%)** - Actual Production Time / Total Planned Production Time

**Performance (%)** - Actual Production Total / Target Production Total

**Quality (%)** - Good Production / Total Production



### Automation Manufacturing Industry and OEE

The automation industry primarily offers OEE in components and tools. There are very few cost-effective, finished solutions on the market - at least not as offered by the major companies. Popular automation components used for OEE range from local visualization products to general purpose PLCs.

Many PLC manufacturers tout their products as a key component in an OEE system. They absolutely can be that - but they do not come pre-programmed and ready to use for OEE. They simply include the tools and the hooks so you can build your own OEE system around their hardware - or hire a system integrator to build one for you.

To create a ground-up, PLC-based OEE system - an integrator will expend a high number of engineering hours and pass on the corresponding cost. PLC manufacturers offer OEE software solutions, but these are very expensive on a work cell level. There are also plenty of software companies that offer canned solutions. Many of these involve significant up-front costs and regular monthly data charges - also very expensive.

In short, what seems to be missing in regard to OEE from the automation suppliers, is a cost-effective yet scalable work cell solution that goes beyond visualization - and comes ready to setup and use in a matter of hours - not months...*that's where Horner Solutions comes in!*



## HORNER OEE SOLUTION



A pre-programmed solution that is fast & easy to implement



# HORNER OEE SOLUTION

## Monitor Any Machine...Any Process...Anywhere



### REPORTS - SMART OEE ON EVERY PROCESS:

- Log production data that is immediately available to every user on your network
- Instantly generate data to use for work cell or shift reports for a process, area, plant, division or your entire enterprise
- Collect work cell OEE performance data and alarms, downtime reason codes and operator calls
- Data to create custom dashboards and reports exactly how you want them from the OEE stored data files

*OEE is a proven effective metric in an ongoing program of continuous improvement.*

#### XLW Prime:

- Manual operator input via HMI or automated input from the machine / process
- Plant wide connectivity - (WiFi/Ethernet) to a data concentrator.
- Data storage on ↔SD memory card



#### Horner Bundle:

- Packaged together with HMI, Network connectivity, Data Storage, power supply and power disconnect, 4 color tower light, prewired terminal blocks for automated sensor inputs and protective enclosure

#### Tower Light:

- signal system for At Goal / Caution / Alarm / Call - viewable from a distance

#### USB Port & Ethernet Port:

- panel mounted options to be available for - external data file transfers, plant wide LAN connectivity. \*optional on individual work cells

#### Optional - WebMI -

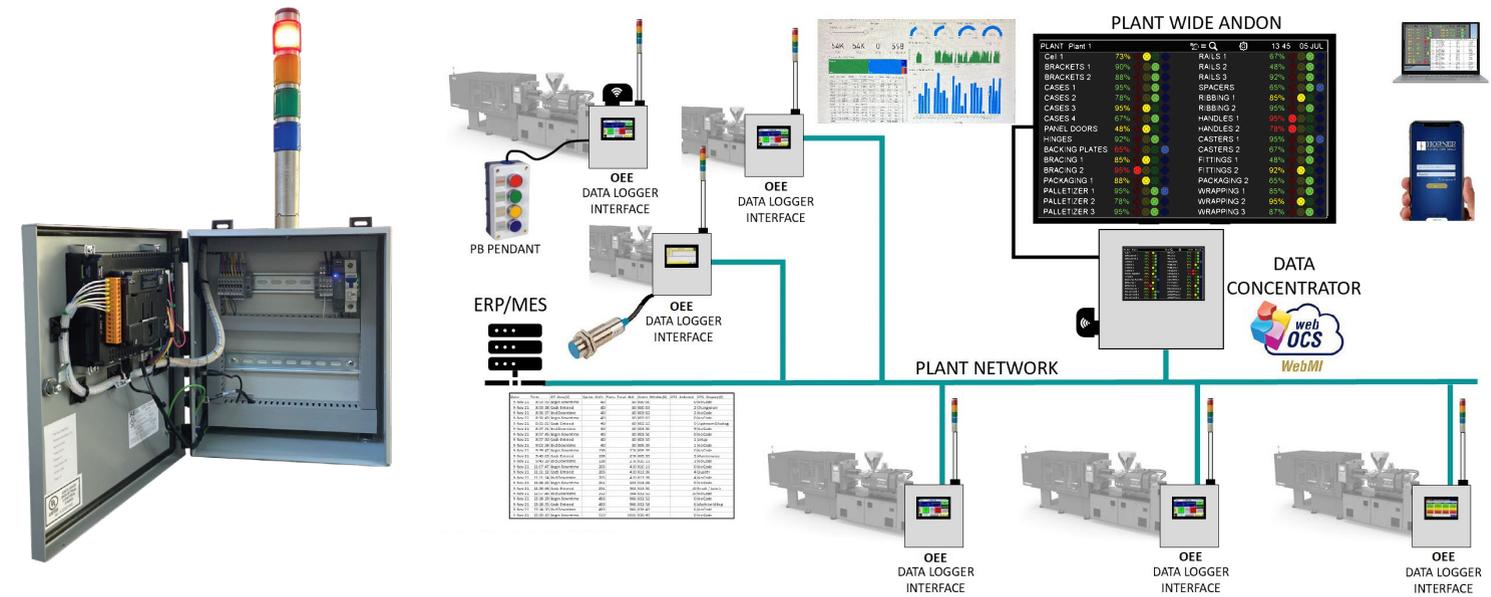
- provides remote visibility and accessibility to data, allowing management to monitor operations hourly, daily, weekly and/or monthly
- Plant wide ANDON display

### HORNER'S OEE SOLUTION

PART NUMBER	DESCRIPTION
HS-XPLWE3-OEE	OEE Solution Work Cell - Stand-alone controller only
HS-XPLWE3-BX01-OEE-UL	OEE Solution Work Cell - UL508-Certified Panel
HS-XPLWE3-BX01-OEE-DC-UL	OEE Solution Data Concentrator - UL508-Certified Panel with WebMI



**Horner App** - gives you the ability to access all WebOCS enabled controllers with your iOS phone or tablet



All datalogging for each work cell includes OEE alarms, downtime codes and operator calls, in a .csv format to allow for easy reporting

Tiered email messaging for all calls. Un-acknowledged call messages can be moved up on a notification list after un-acknowledged timeouts occur.

### RESULTS - IMPROVEMENT AT EVERY LEVEL:

- Single source of data - detailed, accurate, timely and precise
- Operators - Meet production targets by empowerment to improving focus and quicker reaction to downtime and quality events
- Supervisors - Set shift targets using data to analyze and be proactive
- Leadership - Launch projects, set goals and compare investments with results



Food & Beverage



Logistics



Manufacturing



Medical/Pharmaceutical



Oil & Gas



Power/Utility



Water/Wastewater