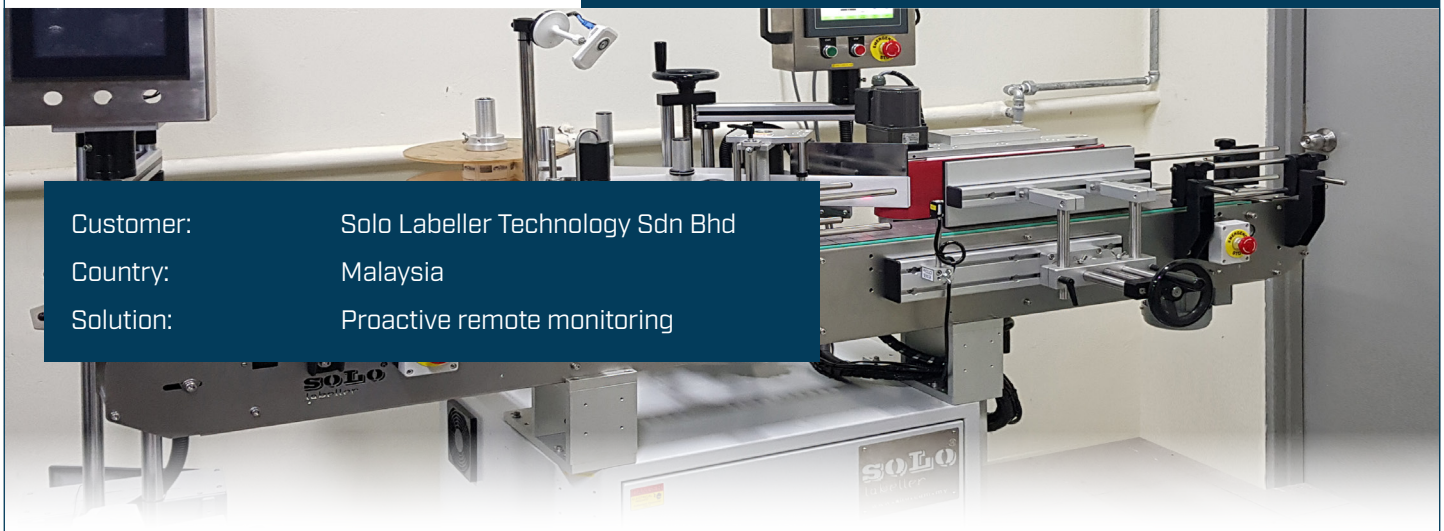
Ewon® BY HMS NETWORKS

Case study:
Labeling



Customer:	Solo Labeller Technology Sdn Bhd
Country:	Malaysia
Solution:	Proactive remote monitoring

Benefits

- Real-time monitoring system, allowing to visualize important KPIs and make informed decisions
- Straightforward data visualization, useful to detect issues and quickly react to fix them
- Predictive maintenance capabilities that have significantly reduced labeling machines downtime

Labeling machine manufacturer implements proactive remote monitoring with the Ewon Flexy

Solo Labeller Technology Sdn Bhd is a leading manufacturer in Malaysia and a complete solution provider for labeling machines & processes. Since 1993, they have sold and serviced over 700 machines in more than ten countries. They have recently expanded their business to include 3D printers and industrial IoT (IIoT) systems. Simplicity, reliability and precision are their business motto.

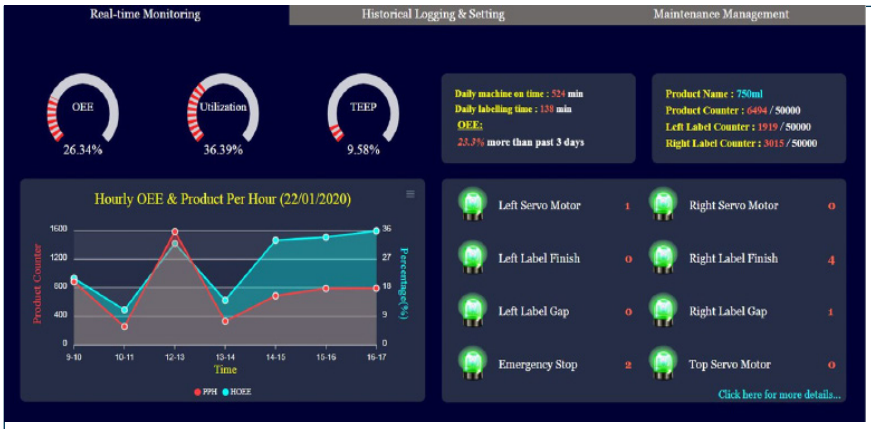
Bringing IIoT efficiency into the manufacturing process

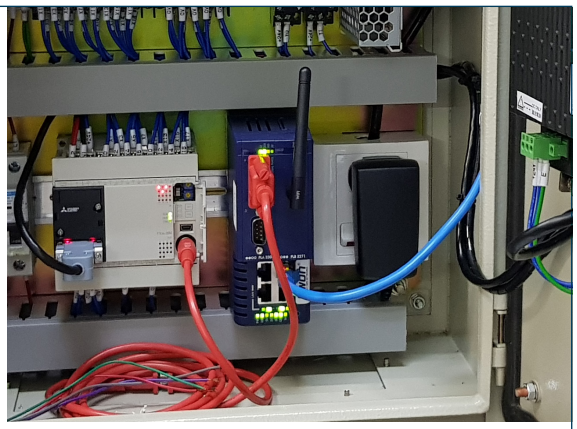
As a labeling machine manufacturer and solution provider, Solo Labeller had a keen interest in the many applications of Industry 4.0, such as robotic arm automation and IIoT applications. They were convinced that by researching, developing and implementing the latest technologies in their products, they could increase their competence and brand image in the market.

The implementation of IIoT in their labeling machines was a real breakthrough. For this purpose, they decided to use an HMS' IIoT gateway recognized for its reliability, namely the Ewon Flexy 205. It allows them to simply and securely connect their labeling machines to the Internet and to the Ewon Talk2M remote connectivity cloud service. Thanks to this, it becomes possible to establish in just a couple clicks a secure remote connection to monitor the status of the equipment through modern HTML dashboards. This way, they can assure their customers that they are always aware of what is happening in their labeling process.

Proactive remote monitoring of the labeling process

The HTML dashboards are made possible thanks to Ewon Flexy's embedded viewON: a graphical environment used to design animated HMI pages. It transforms the Ewon Flexy into a powerful remote dashboard containing complete synoptics with various objects & animations. Several metrics are displayed on Solo Labeller's dashboards, such as utilization, OEE (Overall Equipment Effectiveness), and TEEP (Total Effective Equipment Performance), to indicate the status of their machine's daily performance. A trend graph of hourly OEE and product per hour also reflect the performance of the machine on an hourly basis. By viewing these dashboards, their clients can also know the current running product, the number of completed products, the triggered alarms, and the total number of triggered alarms.





Solo Labeller uses Ewon Flexy to easily generate HTML dashboards. These include important KPIs useful for proactive remote monitoring.

Fast issue resolution and predictive maintenance made possible

Using the alarm logging system provided by the Ewon Flexy and the Talk2M cloud service, Solo Labeller can accurately record the time of each alarm triggered for archival purposes. On the other hand, the historical data logging shows the performance of their machine over the last seven days. This record can be scaled down to an hourly basis, so the customer can see if there is a sudden drop in production rate and corrective action can be taken.

To make things even better, when there is a continuous drop in the hourly production rate or a prolonged alarm scenario, the system automatically sends an email to inform the machine supervisor that something has happened on the labeling machine.

If necessary, Solo Labeller's service engineers can provide immediate remote support to their customer by establishing a secure VPN connection through Talk2M.

Finally, this system can continuously record the runtime of all wear & tear parts and motors of the labeling machine. When a given part is almost out of service, Solo Labeller sends their technician to inspect and replace it. In this way, they have achieved predictive maintenance that has significantly reduced the downtime of their labeling machines.

With the implementation of the Ewon Flexy and thus of an IIoT system in their labeling machines, they have achieved the following:

1. A real-time monitoring system
2. An hourly trend graph that reflects the performance of the machine
3. Historical logging data for the past seven days, scalable to an hourly basis
4. Automatic email function in case of a critical situation
5. Monitoring of wear & tear parts and motors for predictive maintenance

In conclusion, Solo Labeller Technology Sdn Bhd, with a focus on continuous product improvement, has taken full advantage of IIoT thanks to the Ewon Flexy and Talk2M. As Solo Cheong, Solo Labeller's Director explains: «We plan to include more and more information about our machines in our IIoT system. The next step will be to optimize our machine data acquisition and visualization process; data integration and analysis will be the next goal pursued.»

Learn more on www.ewon.biz

Keep an eye on machine performance with Ewon's proactive remote monitoring solution :
- Quick status overview and notifications based on PLC data
- Data visualization through local or cloud-based dashboards anytime from any device
- Cost-effective, easy-to-deploy solution