

**GemOne®**

A company of **TVH**

# Sapphire

## Safety management for material handling



Sapphire is a safety management solution for the material handling industry which has unleashed the potential of tens of thousands of industrial machines across the world.

Whether you're an equipment dealer or the owner of machines, Sapphire increases the safety and efficiency of your fleet today and future-proofs your business for tomorrow.

# Never fail on safety requirements again

## Automated OSHA Checklist




Our on-screen OSHA compliant safety checklists **make pre- and post-start checks mandatory, with operator lockout** if there's a critical issue. It ensures operators have inspected the machine and determined that it is safe to operate.

It documents the completed checklist and the amount of time it took to complete. It tracks user behavior and safety issues with real time data on a cloud platform.



OPERATOR	CHECKLIST	DATE/TIME	DURATION	STATUS	NOTE
John Doe	Pre-start checklist	07 May 2020 10:00	10:05	Completed	
John Doe	Post-start checklist	07 May 2020 10:10	10:15	Completed	
John Doe	Pre-start checklist	08 May 2020 10:00	10:05	Completed	
John Doe	Post-start checklist	08 May 2020 10:10	10:15	Completed	
John Doe	Pre-start checklist	09 May 2020 10:00	10:05	Completed	
John Doe	Post-start checklist	09 May 2020 10:10	10:15	Completed	
John Doe	Pre-start checklist	10 May 2020 10:00	10:05	Completed	
John Doe	Post-start checklist	10 May 2020 10:10	10:15	Completed	
John Doe	Pre-start checklist	11 May 2020 10:00	10:05	Completed	
John Doe	Post-start checklist	11 May 2020 10:10	10:15	Completed	
John Doe	Pre-start checklist	12 May 2020 10:00	10:05	Completed	
John Doe	Post-start checklist	12 May 2020 10:10	10:15	Completed	
John Doe	Pre-start checklist	13 May 2020 10:00	10:05	Completed	
John Doe	Post-start checklist	13 May 2020 10:10	10:15	Completed	
John Doe	Pre-start checklist	14 May 2020 10:00	10:05	Completed	
John Doe	Post-start checklist	14 May 2020 10:10	10:15	Completed	
John Doe	Pre-start checklist	15 May 2020 10:00	10:05	Completed	
John Doe	Post-start checklist	15 May 2020 10:10	10:15	Completed	
John Doe	Pre-start checklist	16 May 2020 10:00	10:05	Completed	
John Doe	Post-start checklist	16 May 2020 10:10	10:15	Completed	
John Doe	Pre-start checklist	17 May 2020 10:00	10:05	Completed	
John Doe	Post-start checklist	17 May 2020 10:10	10:15	Completed	
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John Doe	Pre-start checklist	28 May 2020 10:00	10:05	Completed	
John Doe	Post-start checklist	28 May 2020 10:10	10:15	Completed	
John Doe	Pre-start checklist	29 May 2020 10:00	10:05	Completed	
John Doe	Post-start checklist	29 May 2020 10:10	10:15	Completed	
John Doe	Pre-start checklist	30 May 2020 10:00	10:05	Completed	
John Doe	Post-start checklist	30 May 2020 10:10	10:15	Completed	

Control how often the checklist is presented. **Create different checklists** to suit every type of machine in your fleet. **Customize questions** to meet your own requirements and randomize the order of questions to avoid mindless signing-off.

-  **No clipboards.**
-  **No illegible writing.**
-  **No paper.**

**Just a safe fleet, every day.**

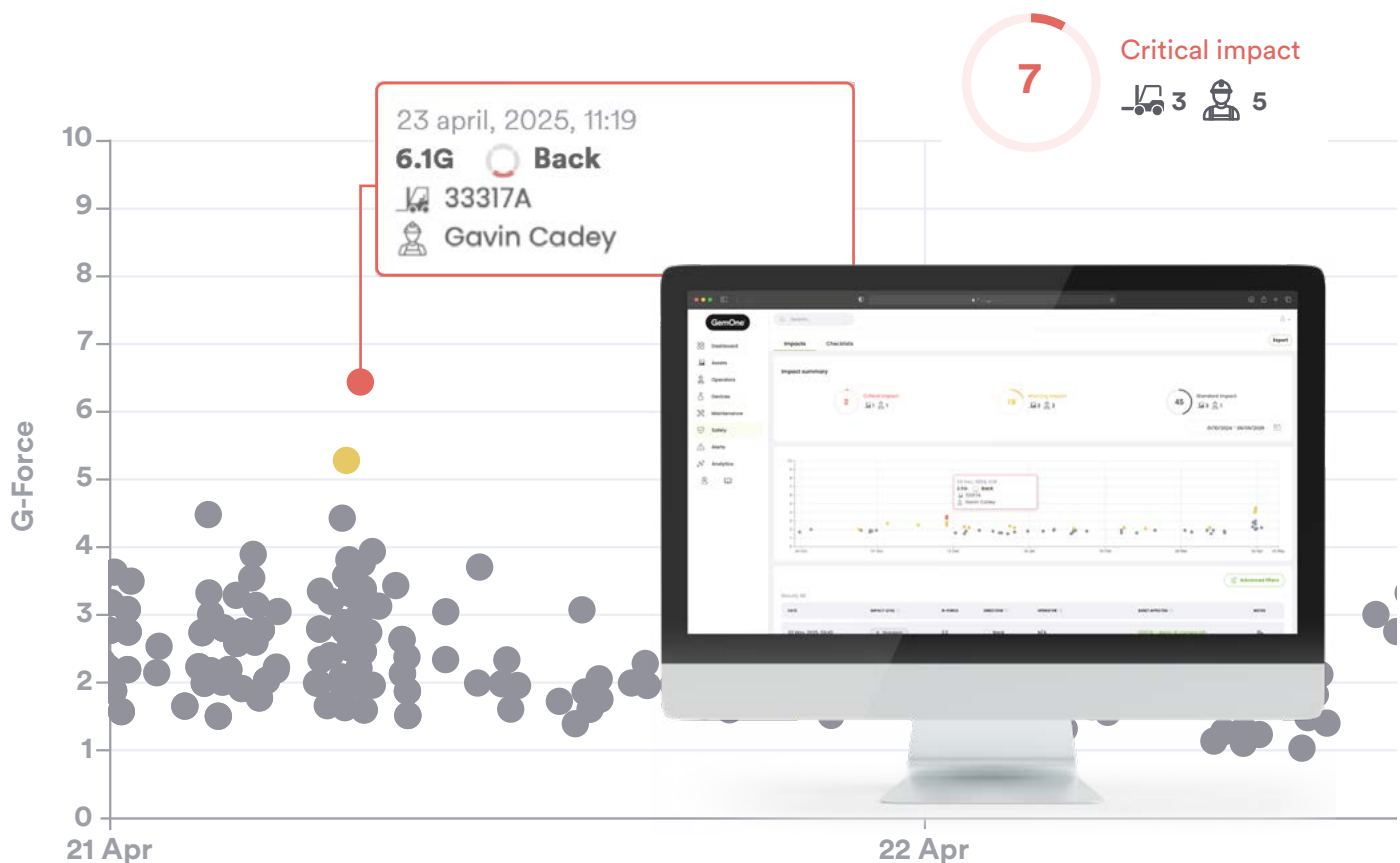
# End lack of oversight on reported impacts

## Impact Reporting

Unreported impacts are costly to your business, both in terms of product and equipment damage and machine downtime.

Receive instant notifications of impacts so you can **identify which operators are most prone to incidents.**

Set up lockout thresholds to notify the operator after an impact and to promote a safer work-space. You decide what these impact level thresholds are based on your specific needs and work environment. **Add additional strobes and buzzer alarms** to encourage safer driving behavior and reduce incidents inside and outside your warehouse.



# Put an end to unapproved use of machines

## Operator Access Control via PIN/RFID

**Give access** to your machines to approved operators via a **pin code, RFID card, or RFID fob**. Choose who you want to operate each machine, based on your own criteria of certifications and training.



Those using standard non-RFID badges who don't want to manage a second ID card may also be able to integrate their existing cards into our system or attach our optional RFID sticker to their current badges for seamless use.

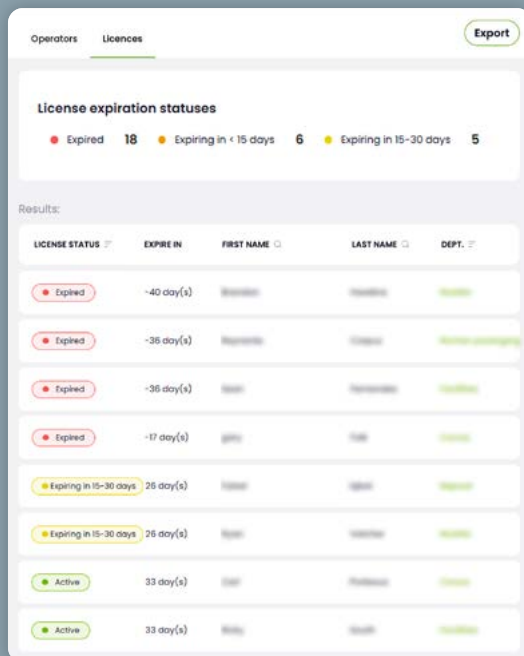


# Cut out the uncertified use of machines for good

## Certification Management

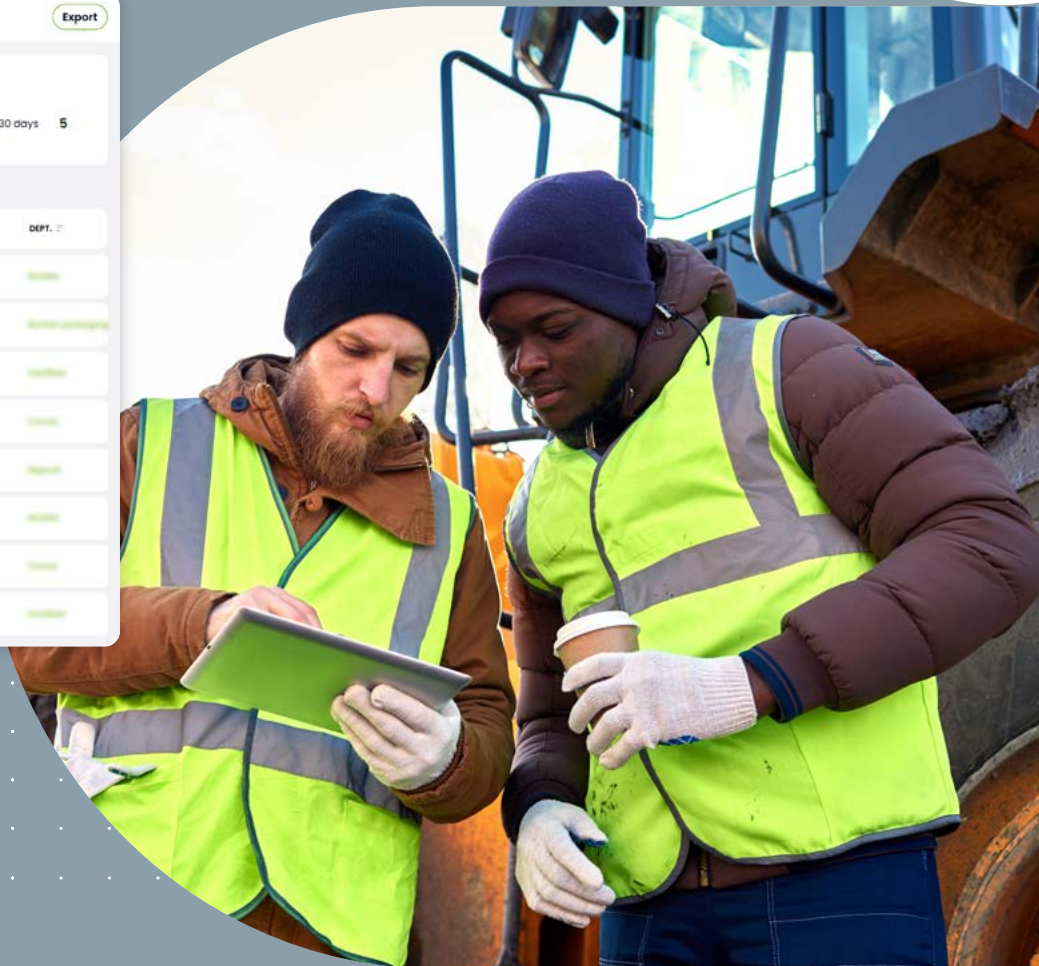
With Operator Certification and OSHA Training expiration tracking, you can ensure that operators using your machines **always comply with the appropriate OSHA training** and certification requirements.

An Operator whose certificate expires will be instantly locked out of all equipment to ensure safety and compliance. You'll never lose track of certification requirements and you'll ensure every operator has the up-to-date OSHA certifications to operate their equipment.



The screenshot shows a web application interface for managing operator licenses. At the top, there are tabs for 'Operators' and 'Licences', with 'Licences' being the active tab. An 'Export' button is located in the top right corner. Below the tabs, a section titled 'License expiration statuses' provides a summary: 18 licenses are 'Expired' (indicated by a red dot), 6 are 'Expiring in < 15 days' (indicated by an orange dot), and 5 are 'Expiring in 15-30 days' (indicated by a yellow dot). Below this summary, a 'Results:' section contains a table with columns for 'LICENSE STATUS', 'EXPIRE IN', 'FIRST NAME', 'LAST NAME', and 'DEPT.'. The table lists several operators, with some having expired licenses and others having licenses expiring within the next 30 days. The interface is clean and professional, with a white background and green accents.

LICENSE STATUS	EXPIRE IN	FIRST NAME	LAST NAME	DEPT.
Expired	~40 day(s)	Brandon	Heath	General
Expired	~36 day(s)	Brandon	Heath	General
Expired	~36 day(s)	Brandon	Heath	General
Expired	~17 day(s)	Brandon	Heath	General
Expiring in 15-30 days	26 day(s)	Brandon	Heath	General
Expiring in 15-30 days	26 day(s)	Brandon	Heath	General
Active	33 day(s)	Brandon	Heath	General
Active	33 day(s)	Brandon	Heath	General

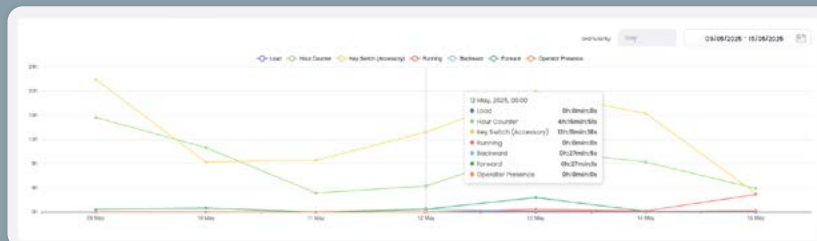
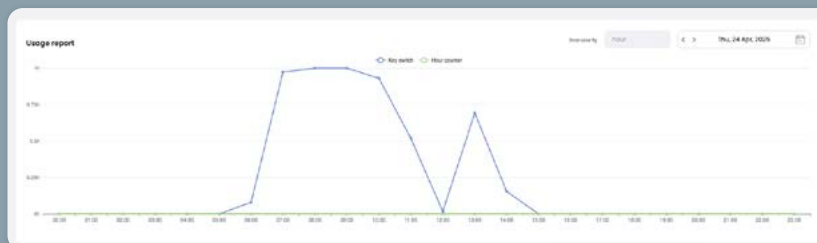


# Stop guessing which machines work the most

## Hour Meters Reporting

See exactly how long your machines are used.

Are some machines underused while other machines are overutilized?



**Machine** | **09:00-10:00** | **10:00-11:00** | **11:00-12:00** | **12:00-13:00** | **13:00-14:00** | **14:00-15:00** | **15:00-16:00** | **16:00-17:00** | **17:00-18:00** | **18:00-19:00** | **19:00-20:00** | **20:00-21:00** | **21:00-22:00** | **22:00-23:00** | **23:00-00:00**

Machine	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-00:00
Machine 1	100.00	150.00	180.00	120.00	100.00	110.00	130.00	140.00	160.00	170.00	150.00	130.00	110.00	90.00	70.00
Machine 2	50.00	70.00	90.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	170.00	150.00	130.00	110.00	90.00
Machine 3	20.00	30.00	40.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00
Machine 4	10.00	15.00	20.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00
Machine 5	5.00	7.50	10.00	5.00	7.50	10.00	12.50	15.00	17.50	20.00	22.50	25.00	27.50	30.00	32.50

Have all the data you need at your fingertips to make smarter business decisions about **optimal fleet composition**.

Hours reporting helps you improve productivity and invest in your fleet more effectively.

Dealers can also be given access to this data so they get real-time insights on hour meters for setting service intervals proactively.



**Less guessing when a forklift needs work.**



**Fewer maintenance issues.**



**Reduced machine downtime.**

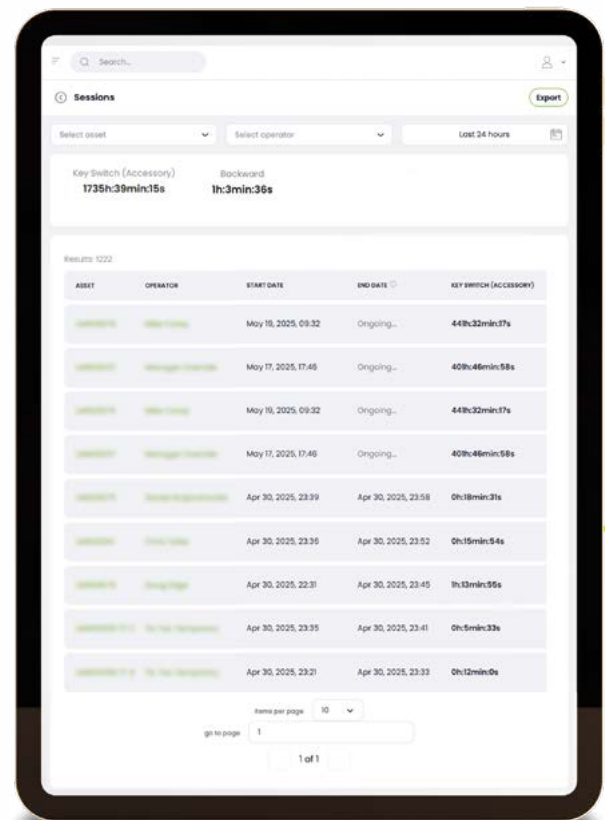
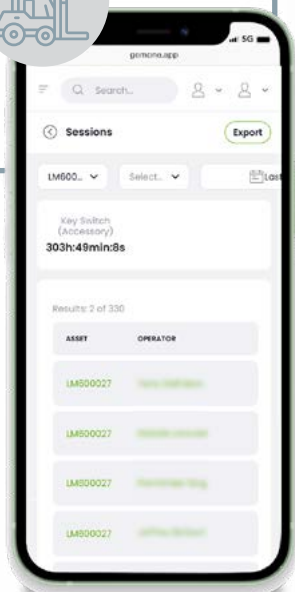
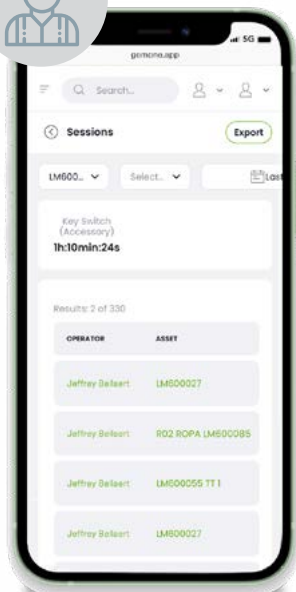
# End confusion about how efficiently operators use machines

## Session Reporting

Monitor the activity of both **individual operators** and **each of your machines** on a daily basis to gain insights on efficiencies.

**Use reports in staff reviews and to set KPIs** which reward safe, productive driving behavior.

Gain insights on key time, seat time, and hours of movement. Identify and remove roadblocks to efficiency.



# Get rid of dangerous blind spots in operator visibility

## Cameras

- Reduce risk of equipment damage.
- Increase productivity.
- Reduce operator fatigue and stress.
- Shorten training time for new drivers.
- Increase work area safety.

Operators **see clearly** with the HR cameras (720p) where their vision is normally limited: in high level racking, double-deep racking, low level lighting, and blind spots.



**Up to 4 camera views**, (mast, in-cab and rear-view), all viewable on the same Sapphire display.



The cameras are **easily installed** on a strong, secure, magnetic base with no welding or drilling required.



Cameras can be repositioned as needed and are suitable for use **indoors and outside**.



**Local footage playback** gives the ability to view footage directly from the Sapphire display.



**No need for dedicated DVR:** an integrated SD card that allows for days of functional recordings.



The cameras **automatically record video** to capture data that assists incident investigation.



## HD Cameras

### Mast View

Provides the operator with a clear view of fork depth and views over the load on their blind side.



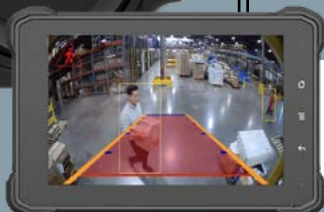
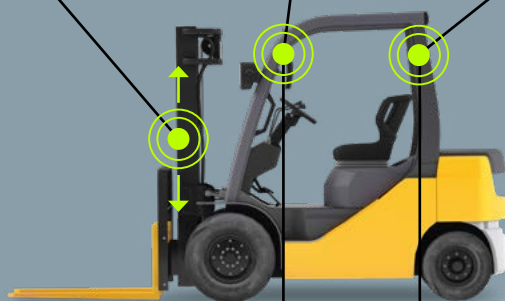
### In-Cab View

Points into the forklift cabin to enhance operator behaviour management.



### Rear View

Provides the operator with an overview of the work area, with excellent picture quality in low light (especially helpful when backing into tight quarters or blind spots.)



## AI Cameras

Increase work area safety with pedestrian proximity detection & warnings.

# Never overload your forklift again

## Forklift Load Sensors

Designed to fit any forklift model, our digital forklift load sensor prevents overloading, ensuring your operators work safely and your equipment is protected

- Avoid dangerous situations relating to the overloading of forklifts.
- Minimize the maintenance costs of machine wear and tear.
- Protect your machines and increase equipment longevity.

An **overweight alarm** prevents the forklift from lifting weights in excess of the equipment's capacity.

You can **enable automatic lockout** of your forklift in the case of weight overload for a safer working environment.

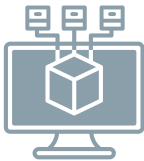
**Calibration is simple and accurate**, with 1kg or 1lb increments, depending on your preferences, to within 2% of the forklift rated capacity.



### Note:

When the scale is installed, the analog input will be reserved for the scale and cannot be used for other inputs. Only one feature can be connected to the input at a given time. This means when the scale is connected to the analog input, you will be unable to use your analog input for other functions (such as timers or operator presence switches).

# Key features



## Cloud platform

See all the data from your warehouse in an online cloud platform that offers **valuable business insights**.



## Real-time reporting

Download any report at any time, or schedule them to suit your needs. Know what is happening with your fleet at all times so you can respond in a heartbeat. Get real-time access to your **data via any web-enabled device, anywhere, anytime**.



## Fully customizable

Choose between overhead guard mounts or clamp mounts. Add **optional features** such as battery monitoring and proximity warning or **additional accessories** such as strobes and alarms for impact lockouts or safety checklist failures.



## Built tough

Our hardware is **IP67 certified for industrial use**. EE Rated solutions are available for custom orders. We back every system with an industry-leading **2 year warranty** as standard, with a possibility of extending this warranty depending on your needs.

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# Sapphire

Make your warehouse **safer**  
and more **efficient**

Request a demo:

[www.gemone.com/demo](http://www.gemone.com/demo)

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