

**GemOne®**

# 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 Checklist

Our on-screen safety checklists **make pre-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 behaviour and safety issues with real time data on a cloud platform.



Machine	Operator	Status	Time	Location	Fuel	Mileage	Hours	Tasks	Comments
1001	John Smith	Completed	08:00	Warehouse	50%	100	2	Pre-start	
1002	Jane Doe	Completed	09:15	Warehouse	45%	120	3	Pre-start	
1003	Mike Brown	Completed	10:30	Warehouse	60%	150	4	Pre-start	
1004	Sarah White	Completed	11:45	Warehouse	55%	110	3	Pre-start	
1005	David Green	Completed	13:00	Warehouse	50%	100	2	Pre-start	
1006	Emily Black	Completed	14:15	Warehouse	45%	120	3	Pre-start	
1007	Chris Grey	Completed	15:30	Warehouse	60%	150	4	Pre-start	
1008	Alice Blue	Completed	16:45	Warehouse	55%	110	3	Pre-start	
1009	Bob Yellow	Completed	18:00	Warehouse	50%	100	2	Pre-start	
1010	Charlie Purple	Completed	19:15	Warehouse	45%	120	3	Pre-start	

Control how often the checklist is presented.

**Create multiple 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.**

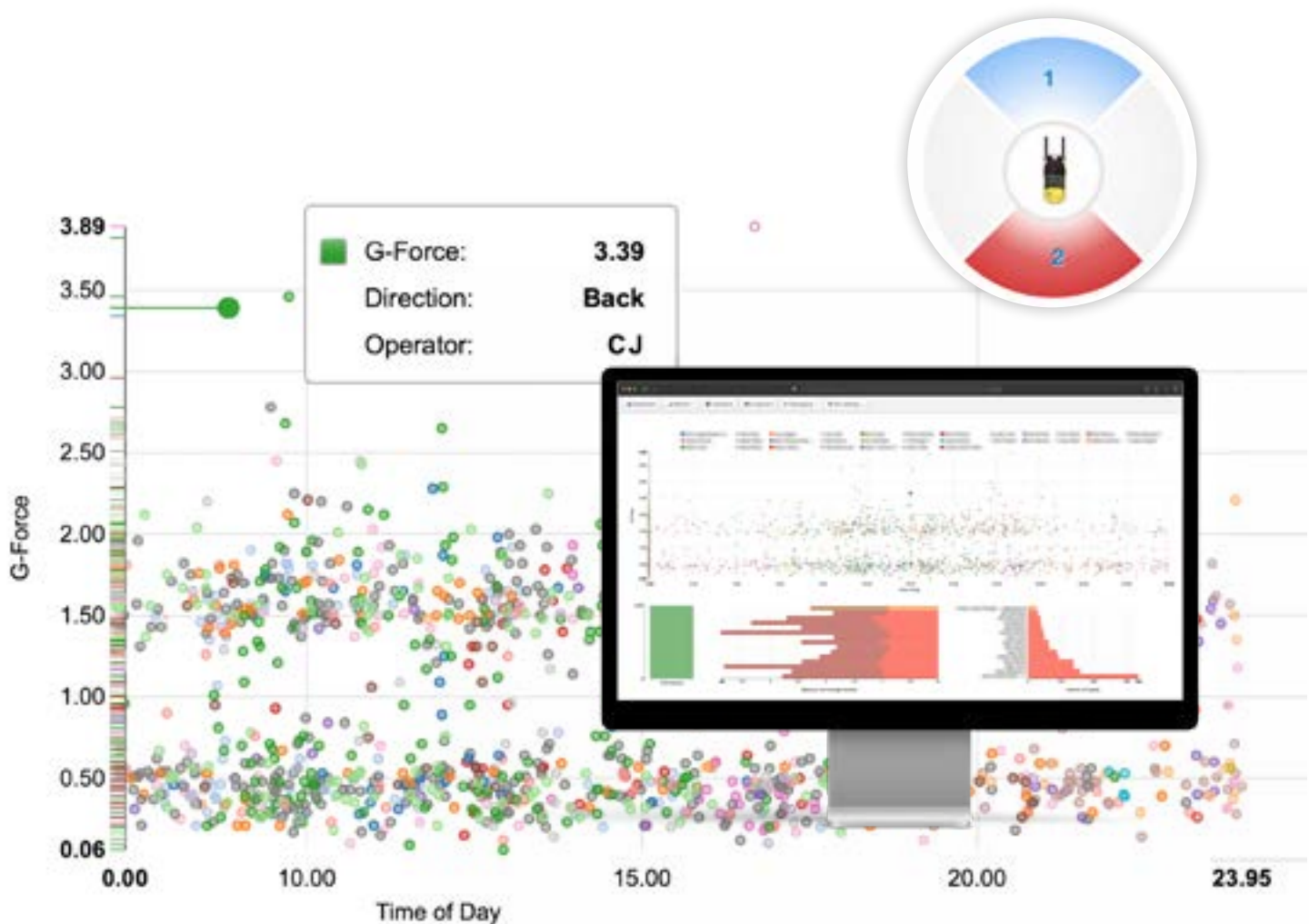
# End lack of oversight on reported impacts

## 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 and areas are most prone to incidents.**

Set up lockout thresholds to notify the operator after an impact and to promote a safer workspace. 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.

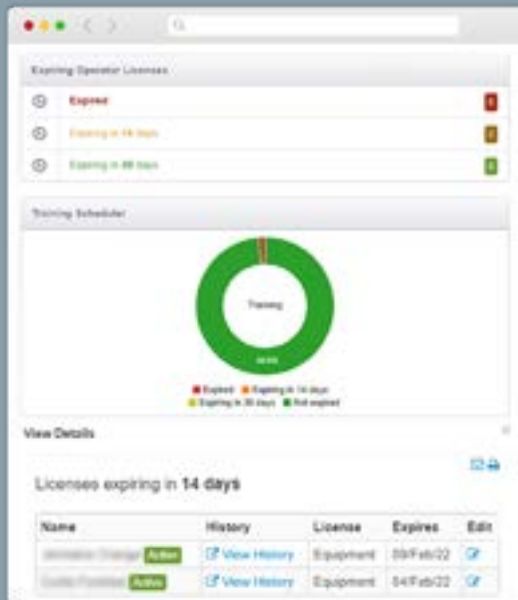


# Cut out the unlicensed use of machines for good

## Licence Management

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

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



# 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?




This table, titled 'Automatic Hour Report', displays utilization data for multiple machines over a period of 12 months. The table has columns for 'Machine', 'Start', 'End', and 'Hours'. The data is organized into rows for each machine, showing the start and end times of utilization and the total hours worked.


Machine	Start	End	Hours
M1	1/1/2011	12/31/2011	12000
M2	1/1/2011	12/31/2011	11000
M3	1/1/2011	12/31/2011	10000
M4	1/1/2011	12/31/2011	9000
M5	1/1/2011	12/31/2011	8000
M6	1/1/2011	12/31/2011	7000
M7	1/1/2011	12/31/2011	6000
M8	1/1/2011	12/31/2011	5000
M9	1/1/2011	12/31/2011	4000
M10	1/1/2011	12/31/2011	3000
M11	1/1/2011	12/31/2011	2000
M12	1/1/2011	12/31/2011	1000


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.**

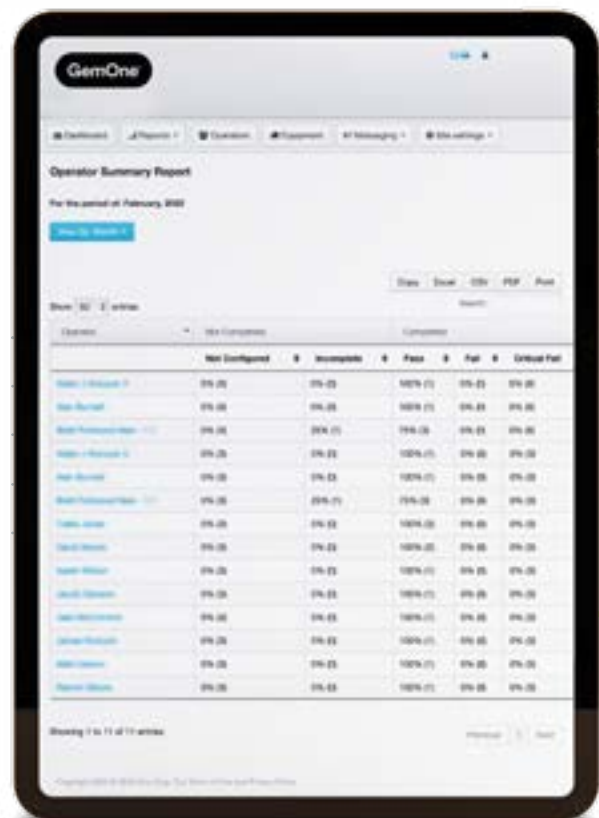
# End confusion about how efficiently operators use machines

## 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 behaviour.

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.

The Sapphire displays up to 4 camera views. Cameras are recording if the forklift is turned on.



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

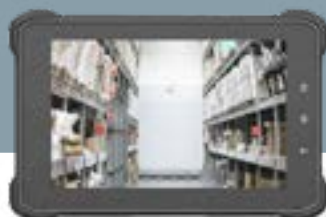
Cameras can be repositioned as needed and are suitable for use **indoors and outside**.





### Fork View

Provides the operator with a clear view of the fork tips. Installed onto the carriage and ideal for high-lift height applications or double-deep racking.



### Mast View

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



### 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.)



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

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

Get up to **11 days of video** and then easily swap out your SD card for more.

# 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.

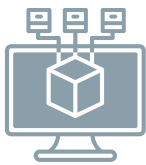
**Calibration is simple and accurate**, with 1kg or 1lb increments, depending on your preferences, to within 2% of the forklift rated capacity.



### 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.

**GemOne®**

# Sapphire

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



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

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