

# ESK M4

Remote management,  
Automatic reports,  
Connected equipment : manage your fleet in one click !



Fleet  
management



The ESK M4<sup>®</sup> is a "full web" access control solution that allows you to have a global overview of the activity of your operators and the commitment of your equipment in one click.



You also receive automatically by mail the detailed reports of the criteria that you will have chosen and you are alerted in real time of any recognized defects.



Multi-brand and multi-voltage, our solution is adaptable to all sectors of activity (airport, automotive, food industry ...)



## Functionalities

<b>Access Control</b>	<ul style="list-style-type: none"><li>• Limits access to equipment to authorized personnel only</li><li>• Start-up by multi-technology badge, RFID key or code keyboard</li><li>• Management of CACES, driving authorizations and medical visits</li><li>• 'Novice driver' function (downgraded mode according to the chosen profile)</li><li>• Creation of specific access</li></ul>
<b>Shocks Detection</b>	<ul style="list-style-type: none"><li>• Remote parameterization, by the management platform</li><li>• Mail alert in case of important shock on material</li><li>• Geolocation of shocks by GPS :<ul style="list-style-type: none"><li>▪ Allows the identification of risk areas and the possible need for operator training</li><li>▪ Allows to make operators responsible and to control the expenses related to the bad use of the material</li><li>▪ Reduce costs related to breakage (equipment, infrastructure) and optimize machine use time</li></ul></li></ul>
<b>GPS Tracking</b>	<ul style="list-style-type: none"><li>• Location of shocks on equipment</li><li>• Geofencing : alert in case of exit from predefined zone</li><li>• Daily route of the material (loaded or empty)</li><li>• Localization of inert materials (option)</li></ul>
<b>CHECK-BOX</b> <b>(Available as a stand-alone version or as an option®M4 )</b>	<ul style="list-style-type: none"><li>• Replaces the 'paper' logbook</li><li>• History of the answers</li><li>• Mail alert if a defect is recorded</li><li>• Customizable questions</li><li>• Random order of the questions display</li></ul>
<b>Hour Meter</b>	<ul style="list-style-type: none"><li>• Hour meter feedback by CANBUS or meter input</li><li>• Allows you to control the operating hours and to adapt your rental contracts</li></ul>
<b>Sending An Instant Message</b>	<ul style="list-style-type: none"><li>• Allows the sending of messages on the cabin display for urgent missions</li></ul>



## Dashboard

By the web management platform, you can track essential criteria such as:

- The commitment of the materials
- The activity of the operators
- Geolocation of your equipment
- The shocks and their geolocation...

According to your needs, you can customize the display of the modules on your homepage !



Green : All is well  
Information

Red : Faulty - automatic mail sending

Blue :

Automatic alerts are also available on sensitive criteria such as :

- Date of medical visit
- Shock
- Zone exit
- CACES
- Material information feedback

Informed in real time, you gain in reactivity and can set up the necessary corrective actions.

Thanks to a logical color code, you know what's going on at a glance !



## Employee management

The ESK M4<sup>®</sup> solution allows you to secure the use of your equipment by limiting access to authorized persons only.

You can manage :

- The dates of CACES and training of users
- Their profile
- The work periods
- Their authorizations by equipment...

Matériels habilités			
N° Série	N° Parc	Désignation	Famille
H2X387J04848	2553	E25L	Caces 3
H2X387J04967	2557	E25L	Caces 3
H2X396E51161	5006	H50D	Caces 3

Familles habilitées	
Famille	
Caces 3	

### GESTION DES EMPLOYÉS

Gestion Employé

Liste des employés: ---- NOUVEAU

Nom:

Prénom:

Matricule:

Service: Fabrication Nord

Profil: Employés MSEA

Identifiant:

Type: Utilisateur

Fin de validité:

Fin autorisation conduite:

Fin Visite Médicale:

Caces:  Bloquant

Info pour statistiques

Tranche horaire: De  à

Jours de travail:  Lundi,  Mardi,  Mercredi,  Jeudi,  Vendredi,  Samedi,  Dimanche

Sauvegarder, Imprimer, Supprimer

Modifié par:  Nombre d'utilisateurs: 283

Our solution is available in key or badge version (any technology).



### Shocks, time meter, geolocation...

All management criteria are integrated and displayed in a clear and synthetic way.

This way, you can monitor the status of your equipment as closely as possible.

Modifier	Désignation	N° Parc	H1	H3	Famille	Site	Vu le	Choc	GPS	Prog.	Carb.	Maint.	Maint.
<b>ELECTROCABLAGE</b>													
<b>DX Family</b>					<b>Total: 5</b>	<b>D: 3</b>	<b>U: 0</b>	<b>I: 2</b>					
⚙	Test DDC	00085			DX Family	Site EC2E	06/07/2015 12:40:37			✓		✓	
⚙	Barre de traction	0081			DX Family	Site EC2E	19/03/2015 19:10:52		📍	✓		✓	
⚙	Barre de traction 2	0082			DX Family	Site EC2E	19/03/2015 19:10:52		📍	✓		✓	
⚙	Demo Salon	00EC			DX Family	Site EC2E	19/11/2015 17:17:51			✓		✓	
⚙	Test Belo	11234			DX Family	Site EC2E	14/12/2015 15:38:35			✓		✓	
<b>Dubols</b>					<b>Total: 2</b>	<b>D: 1</b>	<b>U: 1</b>	<b>I: 0</b>					
⚙	Chariot GPS 1008	1145			DX Family	Site EC2E	22/11/2016 16:04:48		📍	✓	🟡 13%	✓	
⚙	Chariot	1235	1 300,15	4,23	Chariot	Site EC2E	07/12/2016 11:41:55	⚠	📍	✓	🟢 14% 🟡 33 h	✓	
<b>LX Family</b>					<b>Total: 1</b>	<b>D: 1</b>	<b>U: 0</b>	<b>I: 0</b>					
⚙	TX_4_2	15434	1 883,33		LX Family	Site EC2E	09/07/2015 17:26:02			✓		✓	
<b>Skos</b>					<b>Total: 1</b>	<b>D: 0</b>	<b>U: 1</b>	<b>I: 0</b>					
⚙	TEST CAN BUS	1637B66EE5			Chariot	Site EC2E	23/05/2017 14:01:00			☐		✓	
<b>Tracteur</b>					<b>Total: 1</b>	<b>D: 0</b>	<b>U: 0</b>	<b>I: 1</b>					
⚙	Barre de traction 3	0083			Tracteur	Site EC2E	19/03/2015 19:10:52		📍	✓		✓	



## Geolocation of materials

A specific cartography translates the routes and the location of your materials :

The redder the area, the heavier the traffic



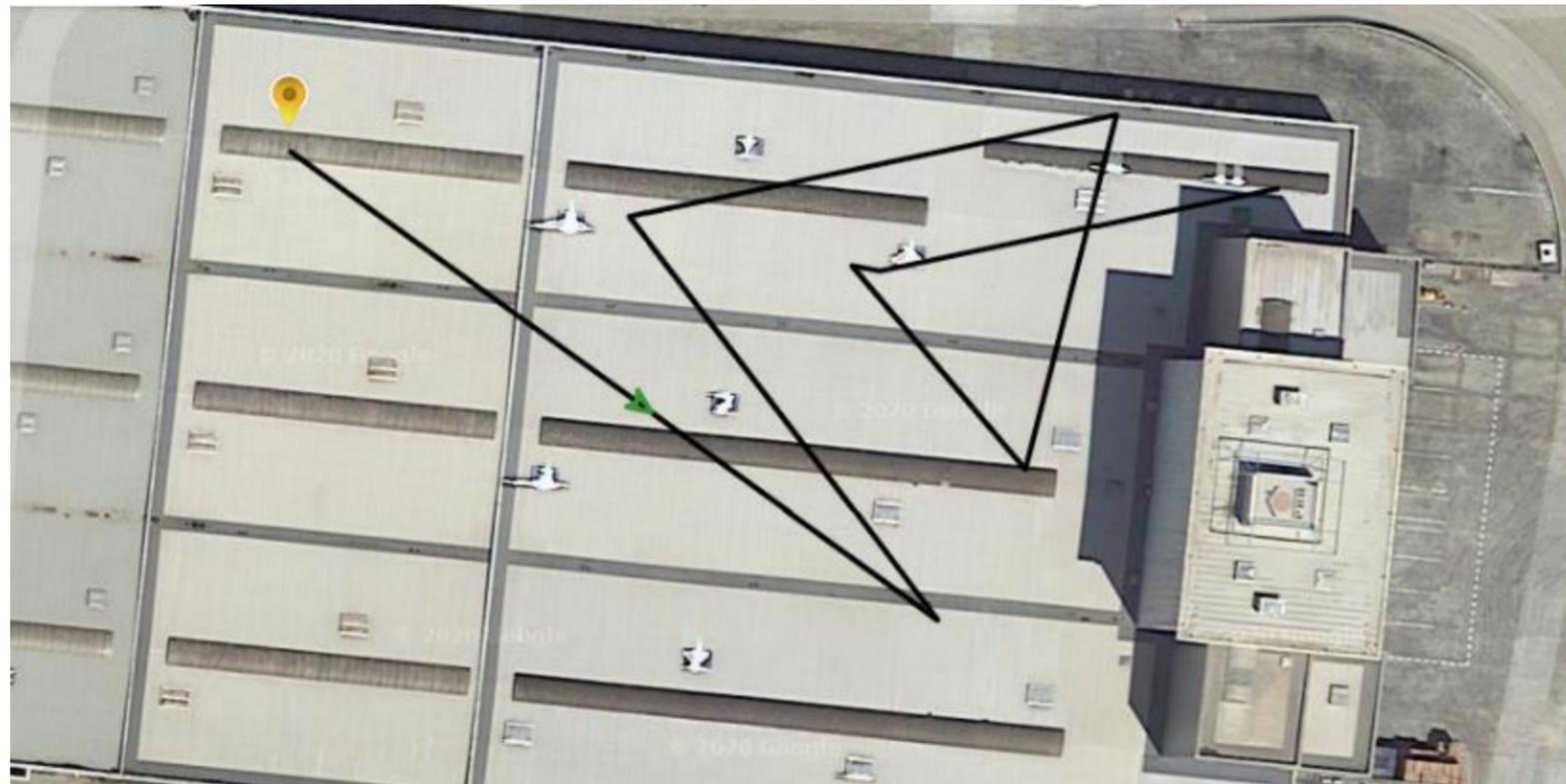
Identify 'accident-prone' and 'stopper' areas'



Fleet  
management

## Geolocation of materials

- The ESK M4<sup>®</sup> solution is able to locate each piece of equipment and to specify for each position: equipment identifier, date, time and speed at the time of location
- You can access the visualization of your entire fleet (instant T) or the evolution of the position of each equipment (time range).



Our location tool also allows you to visualize the routes taken and the direction of movement of materials: flows can be optimized to gain in productivity



## Materials management

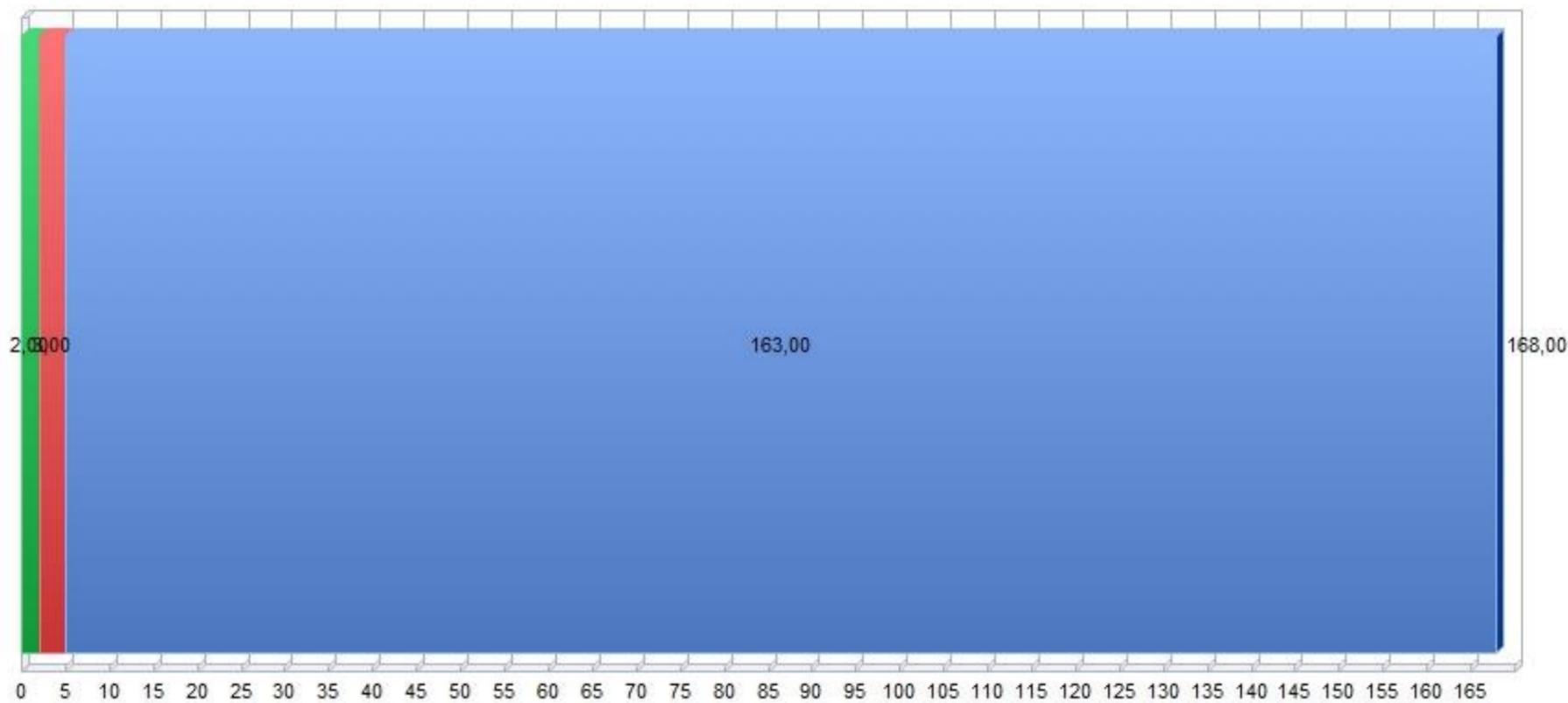
- Shocks and hour meter
- Activity time range
- Linked contract
- Maintenance follow-up ...

All the management criteria are integrated and allow you to monitor the status of your machines as closely as possible.

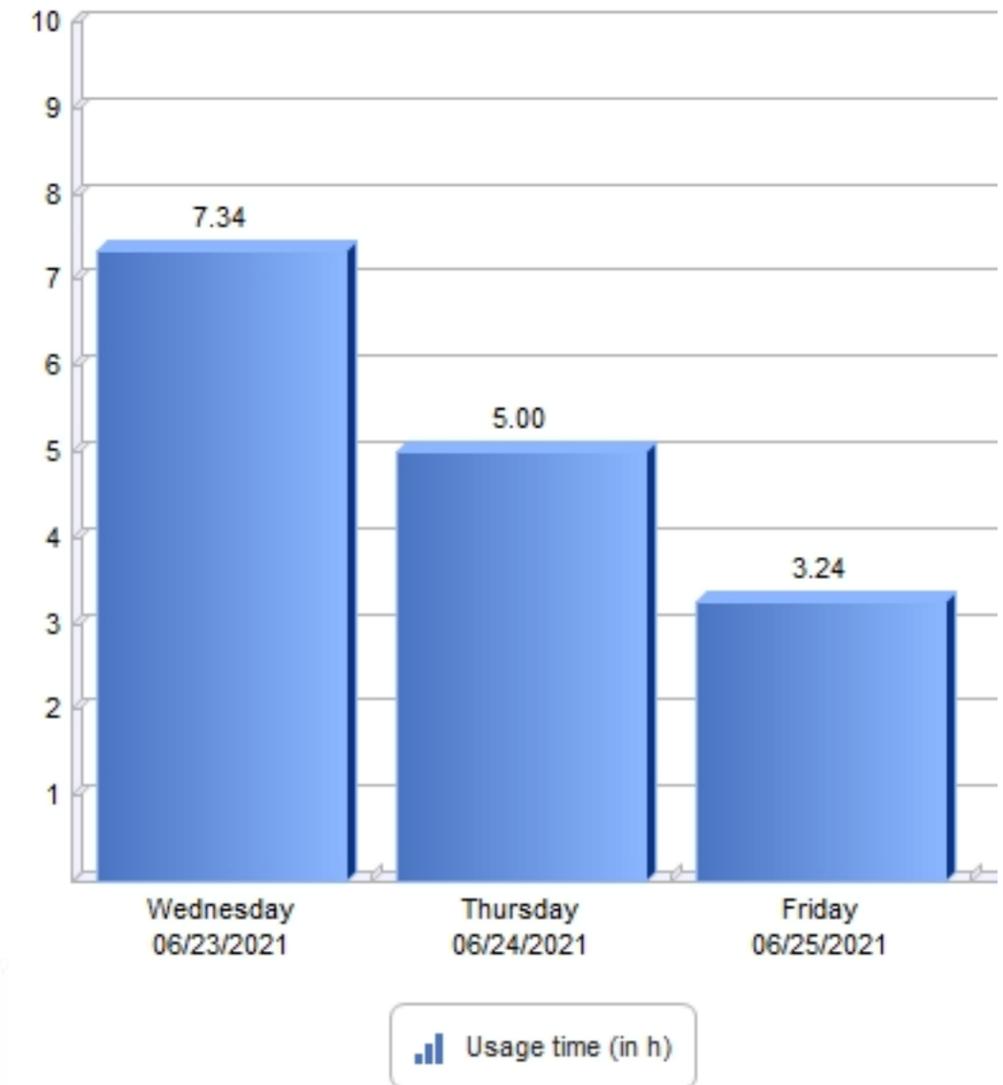
### **Good to know !**

The ESK M4<sup>®</sup> integrates 4 additional inputs such as hour meter or fault to allow you to go even further in the management of your equipment.

### Material commitment over a defined period

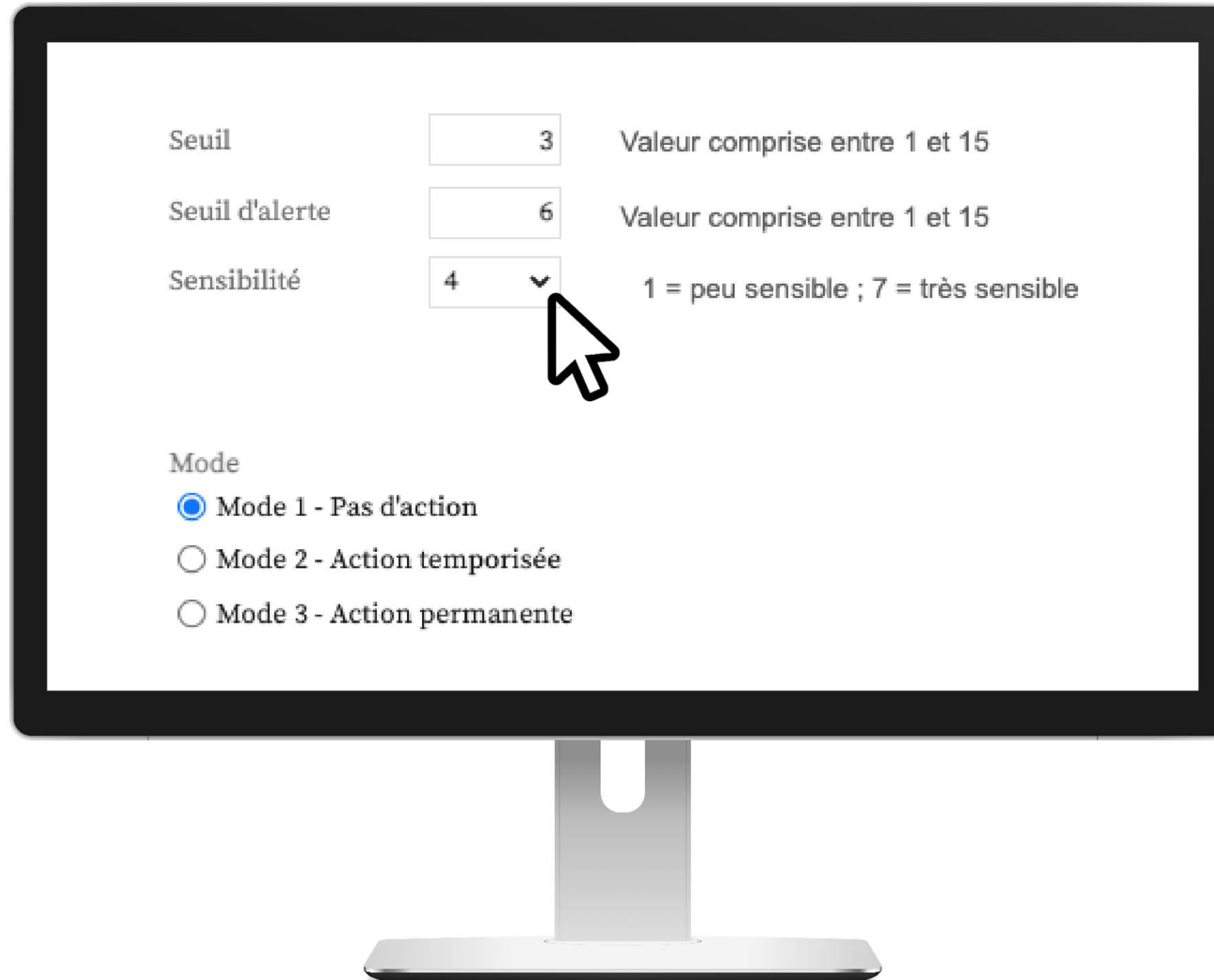


### Commitment of one material per user over a defined period



## Shock detection

You define directly on the management platform the shock thresholds according to the tonnage of the materials.



The screenshot shows a configuration interface for shock detection. It includes three input fields for 'Seuil', 'Seuil d'alerte', and 'Sensibilité', each with a numerical value and a descriptive note. Below these is a 'Mode' section with three radio button options. A mouse cursor is pointing at the 'Sensibilité' dropdown menu.

Seuil	<input type="text" value="3"/>	Valeur comprise entre 1 et 15
Seuil d'alerte	<input type="text" value="6"/>	Valeur comprise entre 1 et 15
Sensibilité	<input type="text" value="4"/> v	1 = peu sensible ; 7 = très sensible

Mode

- Mode 1 - Pas d'action
- Mode 2 - Action temporisée
- Mode 3 - Action permanente



## Geolocation of shocks

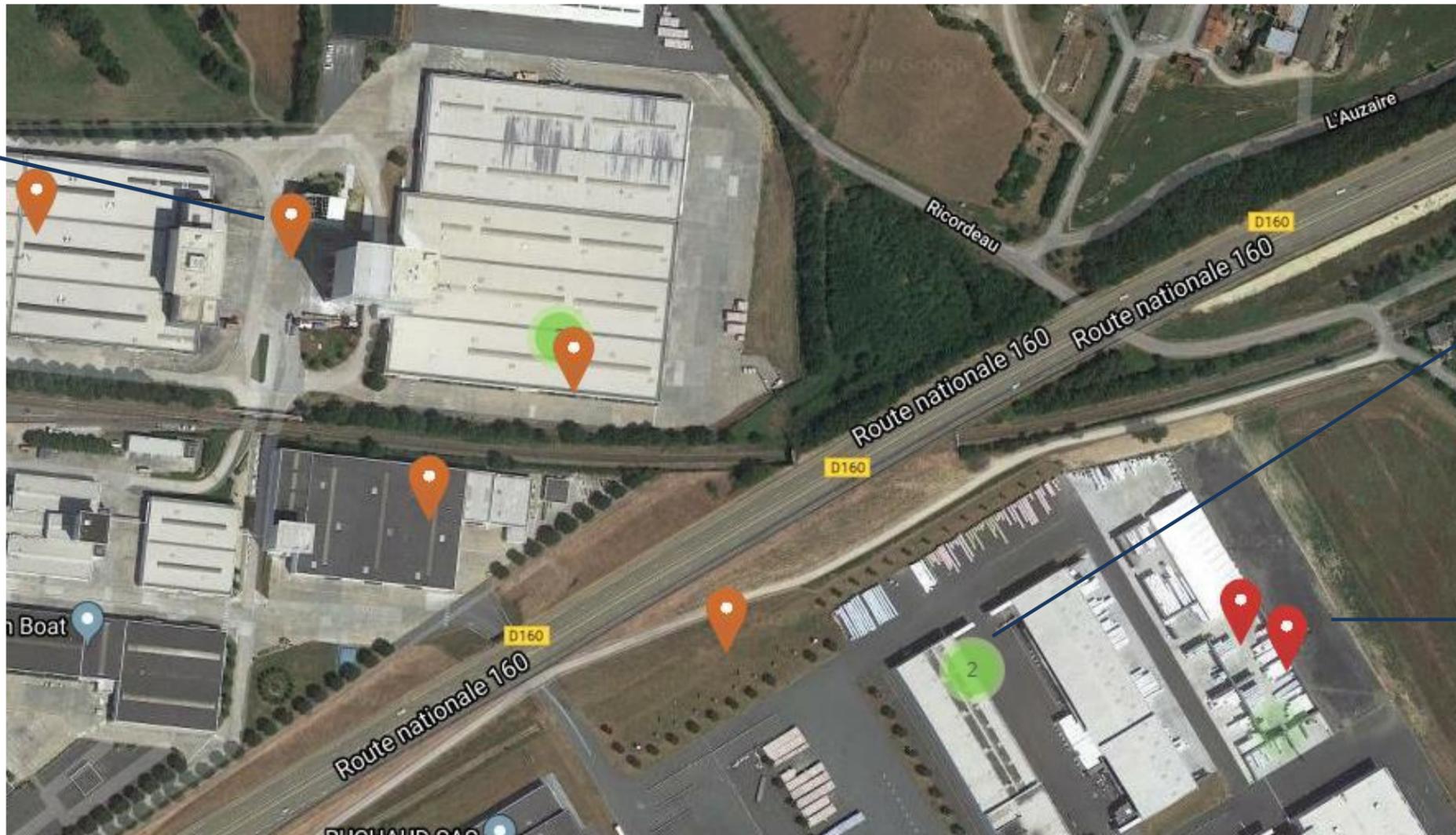
A specific reporting allows to visualize where the shocks occur >> the "accidentogenic" zones are identified

>> corrective and preventive actions can be implemented.

Site  Client  Période prédéfinie Mois flottant  

Date 22/12/2019  Date fin 21/01/2020

Medium shock  
(orange icon)



Cumulative shock  
zone (green dot -  
detail via a  
simple zoom)

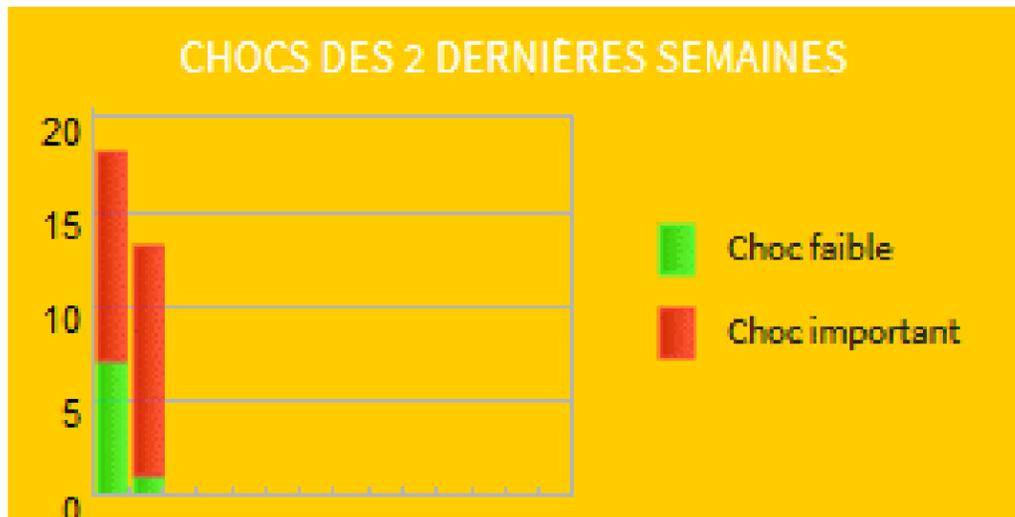
Severe shock  
(red icon)



## Shock reporting

In the general reporting, the number of small and large shocks is highlighted. They are also detailed in the weekly reports.

Important shocks are notified by email to the administrator and/or the platform manager (recipients defined by the customer).

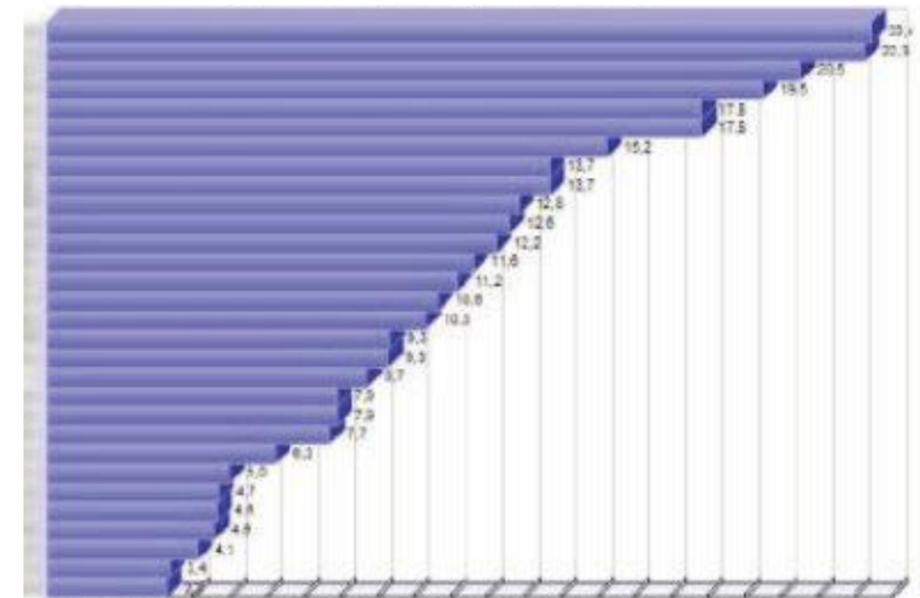


## Automatic reporting

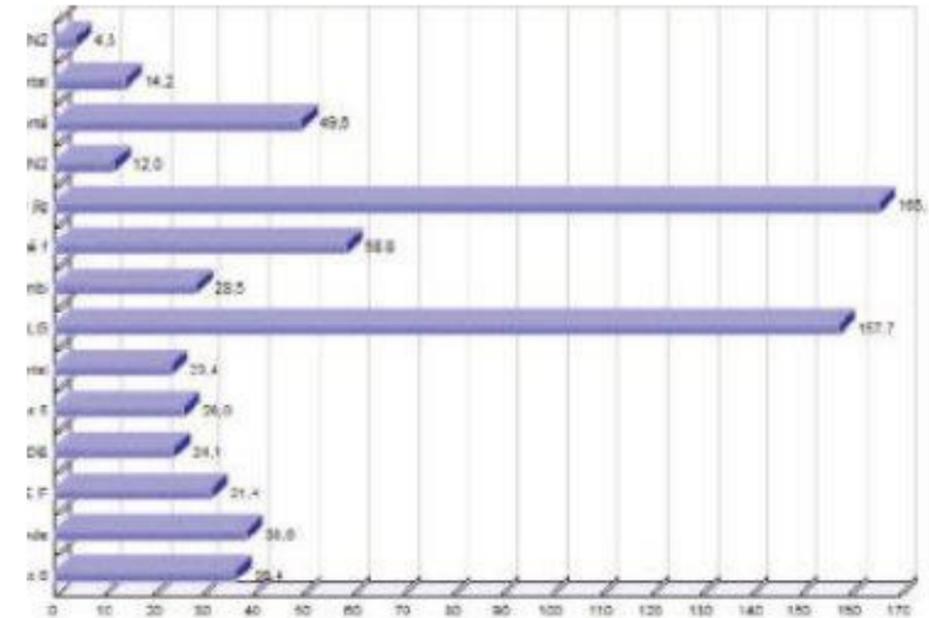
You automatically receive by mail your detailed reports on the criteria you choose and can instantly optimize the management of your fleet !

- Material schedule
- Material commitment per employee
- User activity (in hours, by equipment...)
- Report of average and severe shocks : by material, by user, by zone...

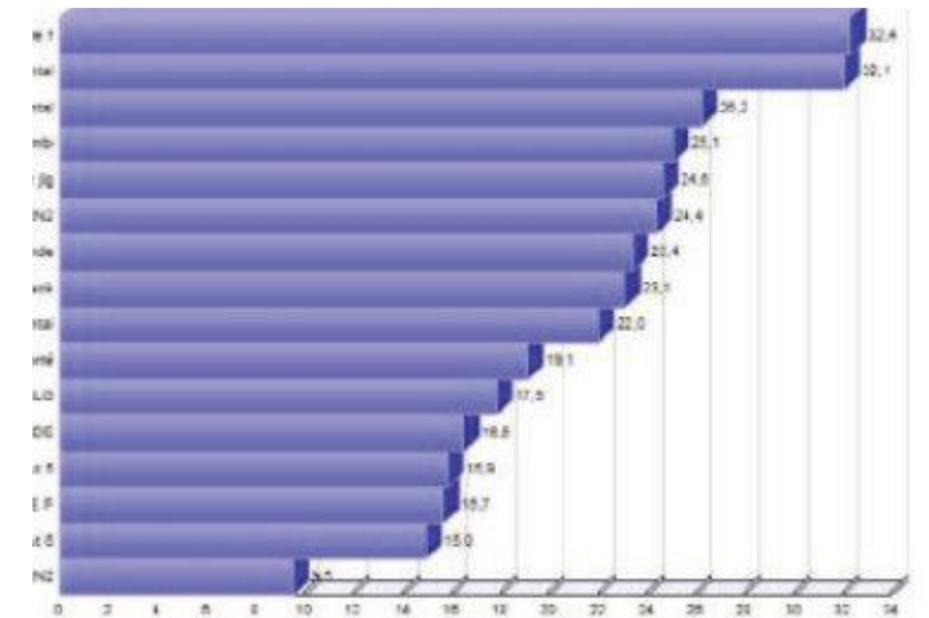
Employee activity



Material hour meter



Material commitment



## The advantages

Management of CACES with automatic alert before expiration

Management of the history of shocks and defects

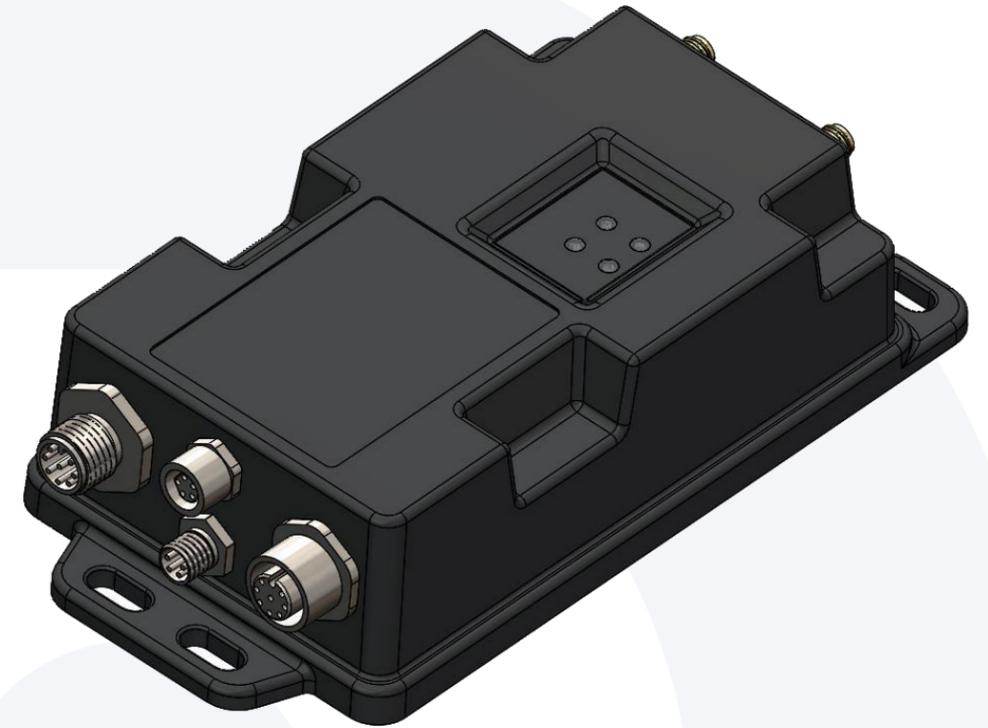
Management of driving authorizations

Management of lost or stolen keys guaranteeing a unique key per user

Access by personal login and password

French-made product

Data hosting in France



**Ensure safety in the operation of equipment**

**Optimize the management of the fleet and simplify the follow-up of the keys**

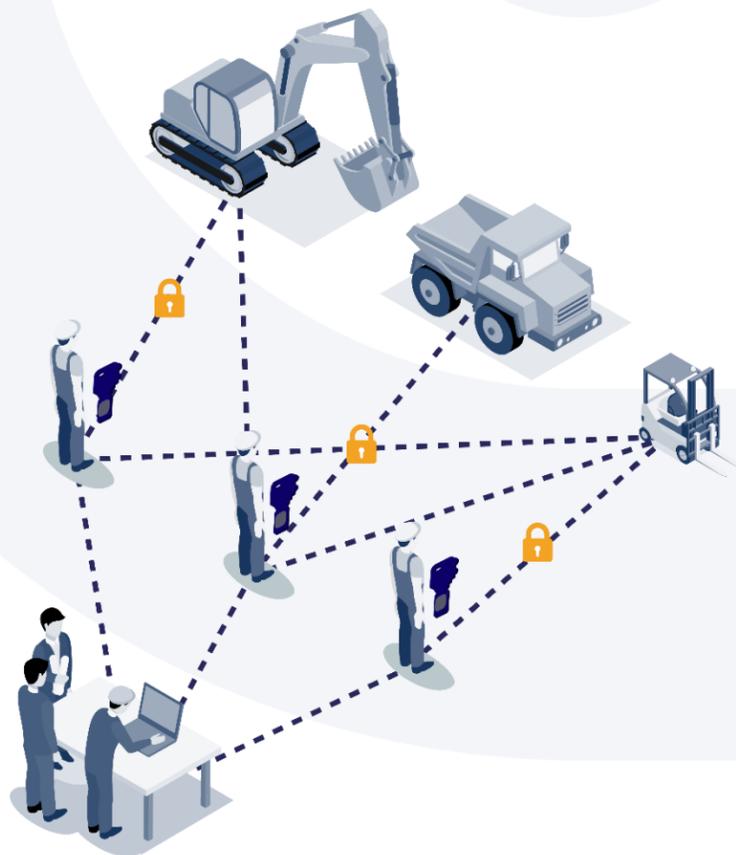
**Empower the forklift drivers**

**Reduce costs of breakage and downtime**

**Reduce costs of use**

**Access to the management platform by a simple Internet connection**

**Unique solution independent of manufacturers and distributors**



**Fleet  
management**

## Technical Data

ESK M4	Réf : 740 —
Manufacturer	ELECTRO CABLAGE
Type	Access Control
Operation	Key / Badge
Inputs and registration	<ul style="list-style-type: none"> <li>- User presence timer</li> <li>- 2 voltage inputs 12-80V --&gt; on/off (Time meter)</li> <li>- 1 dry contact input on hardware fault</li> <li>- 1 dry contact input for seat timing voltage (Programmable)</li> </ul>
Power supply & Consumption	12 - 48V 2,4W max - 200 mA max under 12V - with shock sensor
Connections & Equipment	<ul style="list-style-type: none"> <li>- 1 M12 male 8 pts : Power supply and relay</li> <li>- 1 M12 female 8 pts : Contact and voltage inputs</li> <li>- 1 M8 male 5 pts : Badge / Key / Keyboard</li> <li>- 1 M8 female 5 pts : CANBUS peripherals</li> <li>- 1 SMA female : 4G / 3G / 2G or Wifi antenna (option)</li> <li>- 1 SMA female : GPS antenna (option)</li> </ul>
Key / badge reader	Cf reader document
Option	Shock sensor - Geolocation - Canbus - Analog inputs
Information feedback	Wifi, GPRS/4G
Programming and commissioning	Web Site
Operating temperature	-20 - 50 °C
Materials	ABS V0
Weight	275 g
Case dimensions	80 x 44 x 147 mm

## Available options

	Description	Référence
	Extension cable Canbus 4 points 2m Extension cable Canbus 4 points 5 m	737020 737021
	Converter 80V - to 12V - (600mA) if material voltage higher than 48V	734083
	Optional external relay 12V relay Relay 24V Relay 48V Relay 80V	320101 320001 320002 320003
	Start button Start / Stop button	320102 320111
	Electronic shock detector XL4 Electronic shock detector XL6	739002 739006
	4G/GPRS antenna for outdoor geolocation	734010
	Customizable electronic checklist 12V	739540
	Check-box converter for higher voltage 12V	739083
	Additional inputs module (ADC CAN) : - 3 analog voltage (Example: battery voltage)	739200
	Additional relay module (CAN relay)	739600
	CanBus Gateway Interface (PassCan)	739400



To go further ...



## Additional module

The ESK M4<sup>®</sup> can be completed by an additional module able of managing :

- Metering
- Voltage
- Analog

Possible applications :

- Battery voltage reading and deep discharge warning

Example of fuel gauge monitoring

Modifier	Désignation	N° Parc	H1	Choc	GPS	Prog.	Carb.	Maint.	Maint.
France									
ARP2									
Famille défaut ARP2									
⚙️	Porte	17280407E8				<input type="checkbox"/>	● 4687 j	<input checked="" type="checkbox"/>	
Tapis bagage ARP2									
⚙️	TAPIS Bagages - T B	TB16012	6 069,67		📍	<input checked="" type="checkbox"/>	● 66%	● 379 h	<input type="checkbox"/>
Tracteur avion ARP2									
⚙️	PUSH BACK - T A	P15957	5 116,83	⚠️	📍	<input checked="" type="checkbox"/>	● 78%	● 489 h	<input checked="" type="checkbox"/>
Tracteur de piste ARP2									
⚙️	Tracteur Piste - T T	15940	5 742,65		📍	<input checked="" type="checkbox"/>	● 98%		<input checked="" type="checkbox"/>
⚙️	Tracteur Piste - T E	TE15982	4 345,17		📍	<input checked="" type="checkbox"/>		● -185 j	<input checked="" type="checkbox"/>
⚙️	Tracteur Piste - T E	TE15983	4 227,08		📍	<input checked="" type="checkbox"/>		● -140 j	<input checked="" type="checkbox"/>

Example of battery voltage monitoring



## CHECK-BOX

You have the possibility to couple your ESK M4<sup>®</sup> fleet management with a CHECK-BOX, an electronic version of the daily checks.

Fully customizable, the CHECK-BOX allows an automatic backup of the data, which can be consulted on demand, according to your needs !

By your M4 web platform, you customize your question lists and assign them by type of material (example: front-end checklist).

The transmission to the equipment is done remotely, depending on the communication mode used (4G or Wifi).

The screenshot shows a web-based configuration interface for the CHECK-BOX system. At the top, there is a 'Site' dropdown menu. Below it, a 'Main question' field is followed by two checkboxes: 'Correct answer' (with a red 'X' icon) and 'Blocking'. There are five 'Default' input fields labeled 'Default 1' through 'Default 5'. On the right side, there is a vertical stack of blue buttons: '<< < > >>', 'Nouveau', 'Modifier', 'Supprimer', 'Save', and 'Annuler'. At the bottom right, there is a 'Total' field with the value '0'. A 'Retour' button is located at the bottom center of the interface.

The image shows two screenshots of the CHECK-BOX application on a tablet. The top screenshot displays the 'CHECK-BOX' interface with fields for 'User ID', 'Date', and 'Time'. It includes a 'Forklift ID' field and a 'Fluid level' input with 'Yes' and 'No' buttons. Below are checkboxes for 'Brake oil' and other items. The bottom screenshot shows the same interface with the 'Seat Belt' item highlighted by a red circle, and 'Yes' and 'No' buttons next to it. The bottom of the screen shows navigation arrows and a '2/4' indicator.



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LOGISTICS FOR MANUFACTURERS

**ALCAN**

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**ColiPoste**

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**IKEA**

**IAS**

**DHL**  
EXPRESS

**DUNLOP**

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**MOBALPA**  
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nto  
an

**GOOD YEAR**

**RENAULT**



**SAMSE**

**SAINT-GOBAIN**

fisk  
vance  
setting standards

**TIMKEN**

**They trust us...**

**AIRBUS**

**AREVA**



**DEERE**

**SOLVAY**

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Brasseries Kronenbourg

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Samen zoeken wij graag naar een oplossing voor uw  
zicht- en veiligheidsprobleem.

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