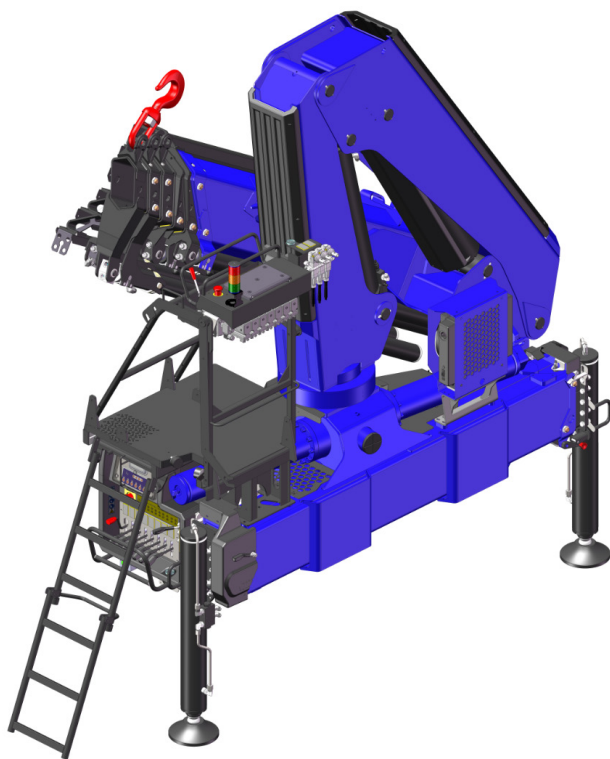


USER MANUAL

CONTROL PLATFORM

NG SERIES



AMCO  **VEBA**
A HYVA GROUP COMPANY

7845429-00 09/17
subject to change without notice

ORIGINAL INSTRUCTIONS

USER MANUAL

CONTROL PLATFORM

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USER MANUAL

CONTROL PLATFORM

WARNINGS

A WARNINGS

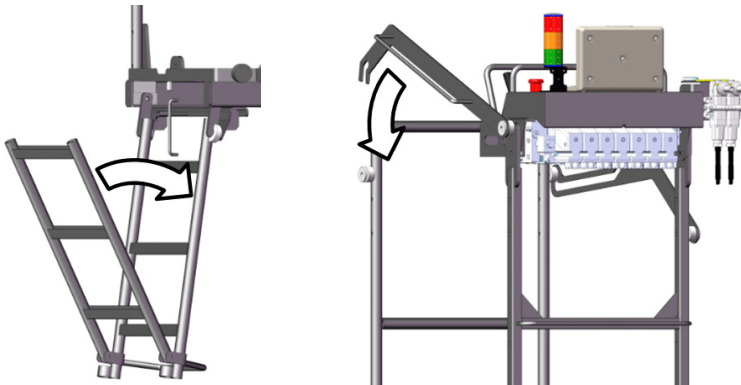
A.1 CRUSHING HAZARD

Crushing hazards derive from moving components of the crane and from devices used to access the platform:

- upper limb crushing during opening/closing the ladder
- upper limb crushing during opening/closing the safety gate
- upper limb crushing between column and boom
- head crushing against crane's boom (if the crane is not equipped with slewing limiter)
- crushing against moving tools installed on the vehicle (e.g. tipping body, winch)

WARNINGS

- Pay close attention when opening/closing the devices to access the platform, especially when folding/unfolding the ladder and lowering the gate.



- When the crane is operating do NOT place upper limbs/fingers between the moving components near the column.



- Take care not to bang your head on the boom during working operations, especially if the crane is not equipped with slewing limiter.



- Do NOT extend arms and legs outside the profile of the platform.



USER MANUAL

CONTROL PLATFORM

WARNINGS

A.2 IMPACT HAZARD

In case of NOT CE crane, impact hazards derive from platform unfolded:

- impact between crane's boom and platform during boom's folding in crossed position.

WARNINGS

- Before folding the boom into crossed position, make sure that the protection bar is fully tilted toward the platform controls (see figure below).



A.3 SLIPPING AND FALLS

This hazard is present when you are on the ladder, especially if the steps are slippery.

- Fall hazard due to slippery ladder
- Fall hazard when accessing/leaving the platform



WARNINGS

- Keep the ladder and the platform free of oil and other slippery materials.
- In case of use in extreme environments, remove ice, snow and sand from platform.
- Use a suitable step if the ladder is not easily reachable from the ground.
- Climb the ladder carefully using both hands.
- Grasp strongly the platform's frame when accessing and leaving the platform.
- Do NOT stay on the ladder or on the platform during maintenance operations.



USER MANUAL

CONTROL PLATFORM

WARNINGS

A.4 ERGONOMIC HAZARDS

A.4.1 VISIBILITY

WARNINGS

- When operating the crane the user shall have a perfect view of work area: in particular, make sure that the the column and other parts of vehicle do not obstruct the view.

A.4.2 PHYSICAL CHARACTERISTICS

WARNINGS

- The user must have physical characteristics suitable for climbing the ladder.
- In case of extreme climates, entering and leaving the platform repeatedly in a short time is not recommended.

A.5 TRANSPORT AND INSTALLATION

During transport and installation of crane, keep in consideration the possible increase in size and weight due to the control platform, with respect to the standard crane.



USER MANUAL

CONTROL PLATFORM

USE

B USER MANUAL

B.1 PREMISE

Dear Customer,

Please follow the instructions given below to ensure that your crane operates safely:

- Follow carefully all instructions in this manual.
- Always keep this manual in a safe place with the crane so that it is always accessible to the user.
- Refer to an authorised Service Centre in the event of damage or loss of this manual.
- If the crane is sold, the new owner shall request an updated version of this manual.

B.2 IDENTIFICATION

PLATFORM TYPE

- ☐ NO CE
- ☐ CE

- ☐ MANUAL CONTROLS WITH FLEXBALL CABLES
- ☐ MANUAL CONTROLS WITH DISTRIBUTOR ON PLATFORM
- ☐ RADIO CONTROL (TRANSMITTER LODGED ON PLATFORM)



USER MANUAL

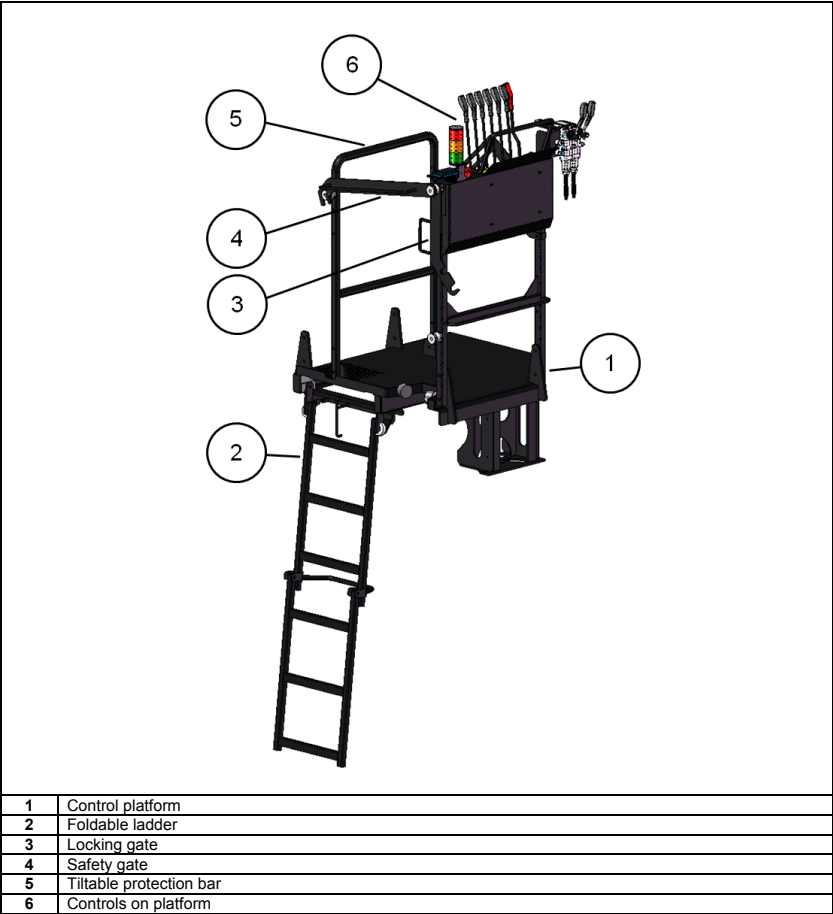
CONTROL PLATFORM

USE

B.3 MAIN COMPONENTS

A list of the main crane components is given below in accordance with EN 12999:

MAIN COMPONENTS



USER MANUAL

CONTROL PLATFORM

USE

B.4 CONTROLS

B.4.1 TYPES OF PLATFORM CONTROLS

MANUAL CONTROLS WITH FLEXBALL CABLES

This version is equipped with control levers fitted on platform and main distributor mounted on crane's base: the control levers are connected to distributor with flexball cables.

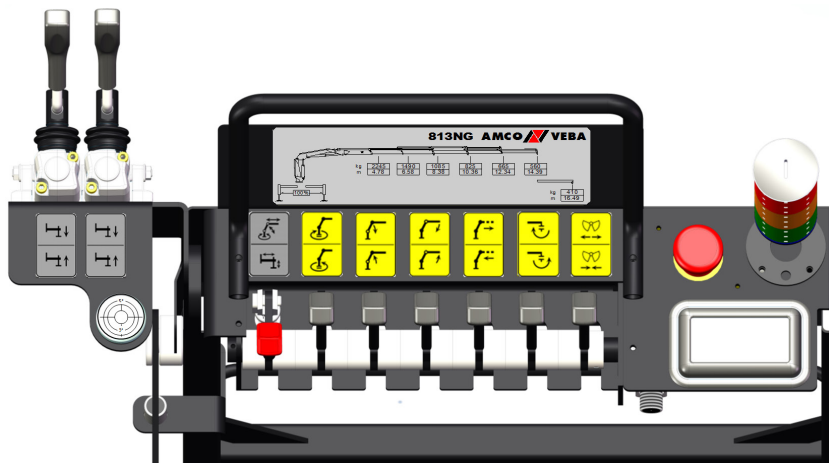
MANUAL CONTROLS WITH DISTRIBUTOR ON PLATFORM

This version is equipped with main distributor fitted on platform: the control levers are connected directly to distributor.

RADIO CONTROL

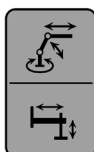
This version is equipped with main distributor mounted on the crane's base. The platform is fitted with a housing designed to hold the radio transmitter.

B.4.2 CONTROLS ON PLATFORM



FLOW DEVIATION LEVER (NO CE, NO RDC)

- **Lever UP:** crane enabled, stabilizers disabled
- **Lever DOWN:** crane disabled, stabilizers enabled

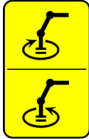
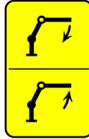
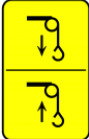
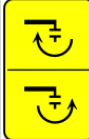


USER MANUAL

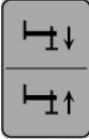
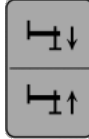
CONTROL PLATFORM

USE

CRANE CONTROLS

MG1	MG2	MG3	MG4	MA1 (OPTION)		MA2 (OPTION)
						
Column slewing	1 st boom articulation	2 nd boom articulation	Hydraulic extensions	Hoist	Rotator	Grab / Bucket

STABILIZERS CONTROLS

MS3	MS2
	
Stabilizer leg on opposite platform side	Stabilizer leg on platform side

B.4.3 AUXILIARY CONTROLS ON CRANE'S BASE

Auxiliary controls include all controls of a standard crane, except these operating the stabilizers legs on platform side.



The hydraulic stabilizer extensions (option) can be operated only with the levers at the auxiliary control stations (see UM for standard crane).



USER MANUAL

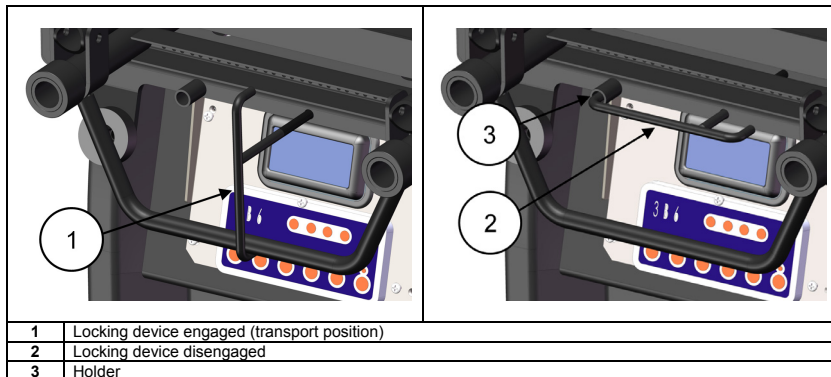
CONTROL PLATFORM

USE

B.5 SAFETY DEVICES

B.5.1 LADDER LOCKING DEVICE

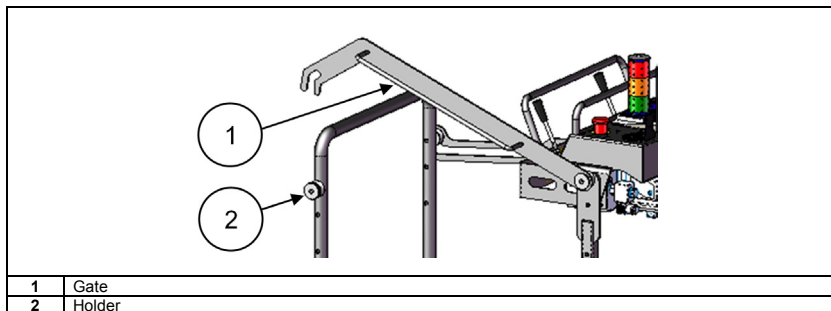
LOCKING DEVICE



Purpose of this device is to lock the ladder in its folded position under the platform.
In order to unlock the ladder, the user shall grasp, pull and rotate the locking device and then secure by inserting its curved end into the holder.

B.5.2 SAFETY GATE

SAFETY GATE



The safety gate allows the user to work in safety conditions, minimizing fall hazards from platform.



USER MANUAL

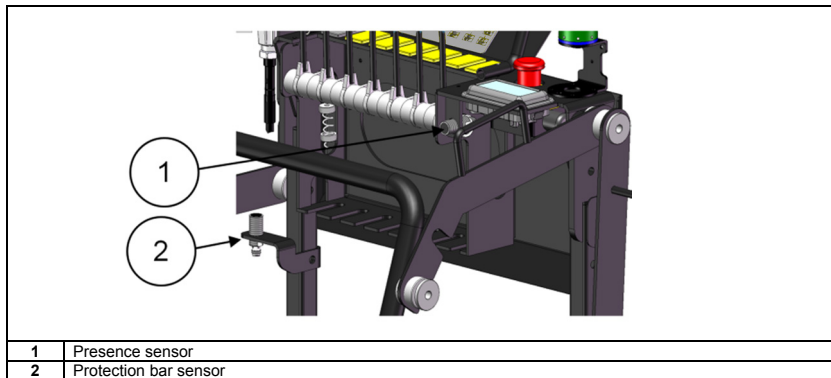
CONTROL PLATFORM

USE

B.5.3 SAFETY SENSORS

CE cranes are equipped with the following sensors:

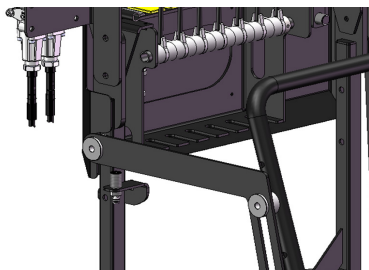
SAFETY SENSORS



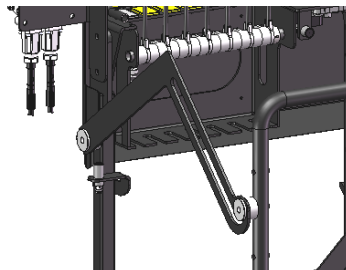
SENSOR FOR MONITORING THE PROTECTION BAR

This sensor detects if the protection bar is inclined in closed position. Before folding the crane (see B.7.2), the operator must incline the bar to closed position (see figure below): the sensor detects that the bar is inclined and allows to fold fully the crane boom into crossed position.

In the case the protection bar is into open position: the sensor blocks the crane movements until the correct closing position is reached.



Closed position



Open position



USER MANUAL

CONTROL PLATFORM

USE

PRESENCE SENSOR

This sensor detects the presence of the operator on the platform and limits the crane movements (e.g. boom slewing over the platform) to avoid that the operator bumps against the crane: the electronic control system creates a safe zone (see the green zone around the platform in the figure below) over the platform which the crane's moving parts (booms, extensions) can not enter.



USER MANUAL

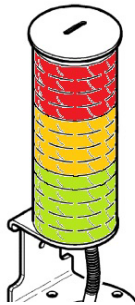
CONTROL PLATFORM

Use

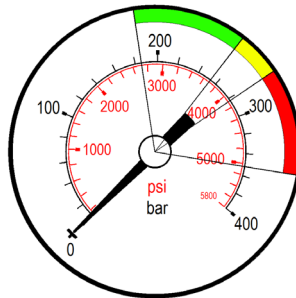
B.6 INDICATORS ON PLATFORM

B.6.1 LOAD INDICATORS

SIGNAL TOWER (STANDARD FOR CE CRANES)
(see UM for standard crane)



PRESSURE GAUGE (OPTION FOR NO CE CRANES)
(see UM for standard crane)



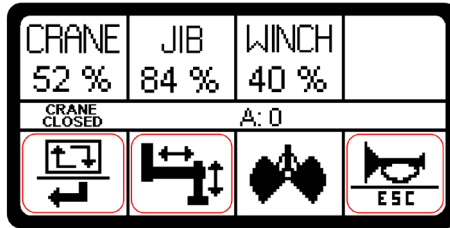
USER MANUAL

CONTROL PLATFORM

Use

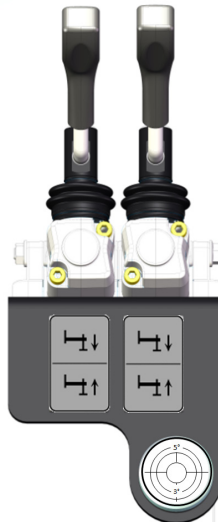
B.6.2 3XL AUXILIARY DASHBOARD

This dashboard is a standard equipment for CE cranes. It is mounted near the control levers.
(see UM for 3XL)



B.6.3 LEVEL INDICATOR

Near the stabilizers controls there is a level indicator that shows the inclination of the platform and of the crane's base. Available only for CE cranes.



USER MANUAL

CONTROL PLATFORM

USE

B.7 OPERATING THE CRANE FROM PLATFORM

The use of a crane with platform requires to pay close attention because the control stations and the stabilizer control levers are located in positions different from the standard ones.

B.7.1 HOW TO ENTER AND LEAVE THE PLATFORM

Procedure to open and enter the platform:

- 1) Disengage the ladder locking device, and put it in the holder (see B.5.1).
- 2) Pull the ladder handle and extract completely the folded ladder.
- 3) Carefully incline downwards the ladder and unfold it.
- 4) Climb the stairs grasping strongly the platform's frame.
- 5) Raise the locking gate and open the tiltable protection bar.
- 6) Enter the platform and lock the safety gate.

Procedure to leave and close the platform:

- 1) Unlock the safety gate and rotate it downwards.
- 2) Exit the platform and stay on its edge grasping strongly the platform's frame
- 3) Incline the protection bar into the closed position.
- 4) Lock the bar with the locking gate.
- 5) Go down the ladder.
- 6) Fold the ladder and raise it up to the closing position
- 7) Engage the ladder locking device.

B.7.2 HOW TO DEPLOY THE STABILIZERS

- 1) Unlock and extract the stabilizer extension on the platform side.
- 2) Unlock and extract the stabilizer extension on the opposite platform side.
- 3) Staying on the same side, extend all stabilizer legs and place them on the ground.
- 4) Unfold the boom until you can open the platform (see B.7.1).
- 5) Enter the platform and complete the stabilization with the suitable stabilizer controls.

For other information refer to the User Manual.

B.7.3 HOW TO FOLD THE STABILIZERS AND THE CRANE



Carry out the following procedure using only the auxiliary controls on crane's base.

- 1) Staying on the opposite platform side, retract fully all stabilizer legs.
- 2) Retract fully the stabilizer extension on opposite platform side.
- 3) Retract fully the stabilizer extension on platform side.
- 4) Fold the crane using the auxiliary controls.

For further information refer to the User Manual.



USER MANUAL

CONTROL PLATFORM

MAINTENANCE

C MAINTENANCE OF PLATFORM

C.1 ORDINARY MAINTENANCE

The following routine maintenance shall be performed by the operator:

- cleaning

Before performing any maintenance operation check that:

- the vehicle is switched OFF
- the parking brake is applied
- the crane's power supply is switched OFF

C.2 PLANNED MAINTENANCE

The owner of the crane is responsible for contacting an authorised assistance centre to perform planned maintenance on the crane and accessories with the following intervals:

SERVICE 500: after the first 500 working hours

SERVICE _000: every 1000 working hours

The maintenance register in Annex D.5 lists the checks which must be carried out during planned maintenance. The following legend explains the meaning of the symbols used in the annex.

Legend

 Visual check	 Tightening check	 Operating test
--	--	--



D TECHNICAL SHEET



USER MANUAL

CONTROL PLATFORM

ANNEXES

D.1CONTROL PLATFORM'S TECHNICAL DATA

Control platform weight, without distributor	 kg	90
Distributor weight	 kg	40
Length (X)	 mm	890
Height (Y) (radio version)	 mm	1440 (1370)
Width (Z)	 mm	940
Max. allowable load	 kg	150



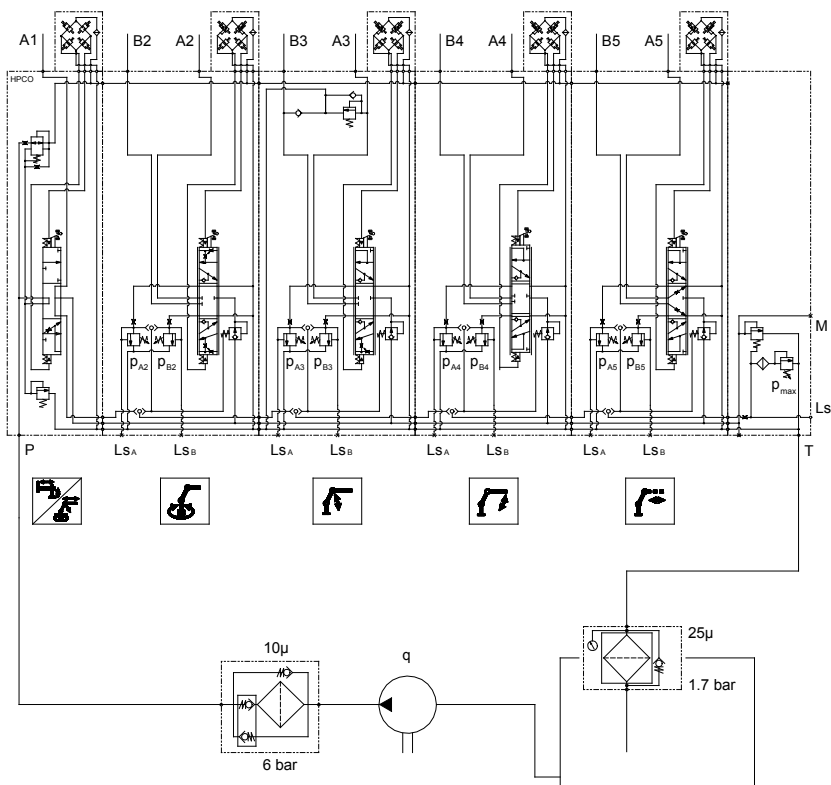
USER MANUAL

CONTROL PLATFORM

ANNEXES

D.2 HYDRAULIC SCHEMATICS

DISTRIBUTOR ON PLATFORM NO RDC - CE



1030196

Settings:
See UM parameters for standard crane with NO RDC - CE control valve.



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ANNEXES

D.3 WARNING LABELS

Label	Position	Description
	At RDC controls	Seal sticker Do NOT use emergency controls under normal work conditions
	At controls	Power supply voltage of crane



USER MANUAL

CONTROL PLATFORM

ANNEXES

D.4 MAINTENANCE REGISTER

CRANE'S IDENTIFICATION DATA	
Model:	
Serial number:	
Year of manufacturing:	
Installer:	

MAINTENANCE SCHEDULE	SERVICE 500	
Platform mounting bolts	☐	
Safety devices and sensors	☐	

Inspection and maintenance operations performed by

Authorized assistance center	
Signature	Date

MAINTENANCE SCHEDULE	SERVICE _000	
General conditions of the platform	☐	
Platform mounting bolts	☐	
Safety devices and sensors	☐	

Inspection and maintenance operations performed by

Authorized assistance center	
Signature	Date

These maintenance operations must be performed after every 1000 operating hours.
Print a new schedule and attach to user manual at each inspection.
The symbols are detailed in C.2.



USER MANUAL
CONTROL PLATFORM
ANNEXES

D.5 EXTRAORDINARY MAINTENANCE MODULE

CRANE'S IDENTIFICATION DATA	
Model:	
Serial number:	
Year of manufacturing:	
Installer:	

FAULT DETECTED
INTERVENTION DESCRIPTION
MATERIALS NEEDED
ADDITIONAL NOTES

Inspection and maintenance operations performed by

Authorized assistance center	
Signature	Date



