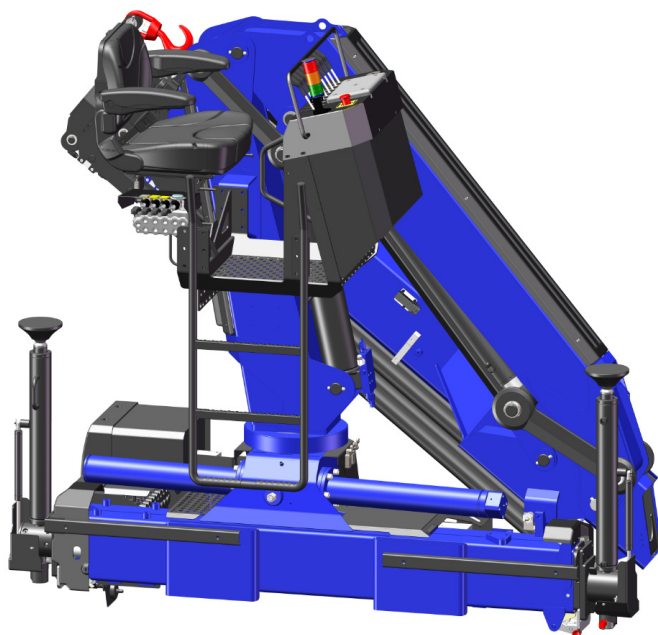


USER MANUAL

TOP SEAT NG SERIES



AMCO  **VEBA**
A HYVA GROUP COMPANY

7845375-01 04/19
subject to change without notice

ORIGINAL INSTRUCTIONS

USER MANUAL

TOP SEAT

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A WARNINGS

A.1 ADDITIONAL PERSONAL PROTECTIVE EQUIPMENT

During normal crane operations on top seat the user must wear additionally:

- safety goggles

Additional protective equipment

Additional protective equipment
when operating on top seat



USER MANUAL

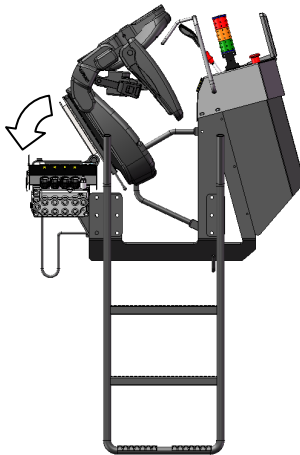
TOP SEAT

WARNINGS

A.2 CRUSHING HAZARD

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

- limb crushing between moving parts of the crane (boom, 1st boom cylinder, connecting rods)
- crushing against moving tools installed on the vehicle (e.g. tipping body, winch)
- upper limb crushing between the seat locking devices (see figure below)



WARNINGS

- Paid attention when you lower the seat into horizontal position.
- When the crane is operating do NOT place limbs/fingers between moving components of crane and vehicle: e.g. boom, 1st boom cylinder, connecting rods, tipping body, etc.



- Do NOT put your limbs outside the profile of the top seat: always keep your hands near the controls and your feet on the footboard.
- Do NOT overload the top seat.



USER MANUAL

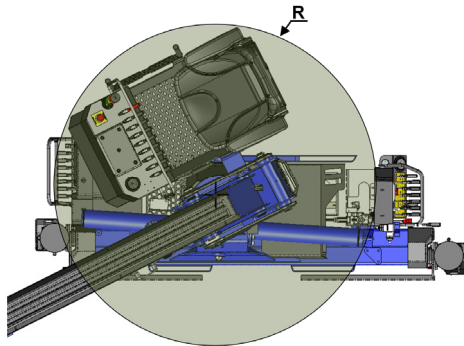
TOP SEAT

WARNINGS

- While you are operating on the top seat, attention must be paid not to bump against obstacles: in particular be careful not to hit your head against upper objects.



- Before any crane slewing, make sure that the seat does not bump against fixed objects, taking into account the overall slewing radius (R) of the top seat. R depends on the crane model on which the top seat is installed.



- During stabilizing operations from the top seat, close attention must be paid, because the user could have an incomplete view of the stabilizers.



A.3 SLIPPING AND FALLS

This hazard is present when you are on the ladder and on the top seat:

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



WARNINGS

- Keep the ladder and the top seat free of oil and other slippery materials.



- In case of use in extreme environments, remove ice, snow and sand from the top seat.
- Use a suitable step if the ladder is not easily reachable from the ground.
- Climb the ladder carefully using both hands.
- Grasp strongly the seat armrest when accessing and leaving the top seat.
- Fasten the seat belt before starting any crane operation.



- Do NOT access/leave the top seat if the crane boom is not folded in transport position or the ladder is not easily accessible.
- Do NOT stay on the ladder and on the top seat during maintenance operations.



USER MANUAL

TOP SEAT

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

TOP SEAT

- ☐ NO CE
- ☐ CE WITH 3XL
- ☐ CE WITH 4XL

- ☐ MANUAL CONTROLS
- ☐ RADIO CONTROLS



USER MANUAL

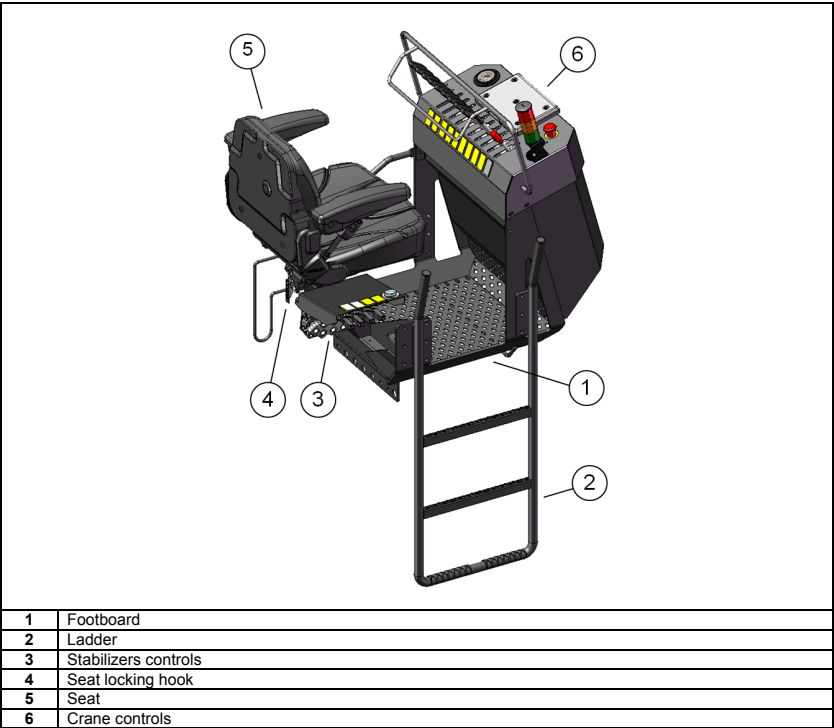
TOP SEAT

USE

B.3 MAIN COMPONENTS

A list of the main components is given below:

MAIN COMPONENTS



USER MANUAL

TOP SEAT

USE

B.4 CONTROLS

B.4.1 CONTROL STATIONS

MANUAL CONTROLS

This version is equipped with:

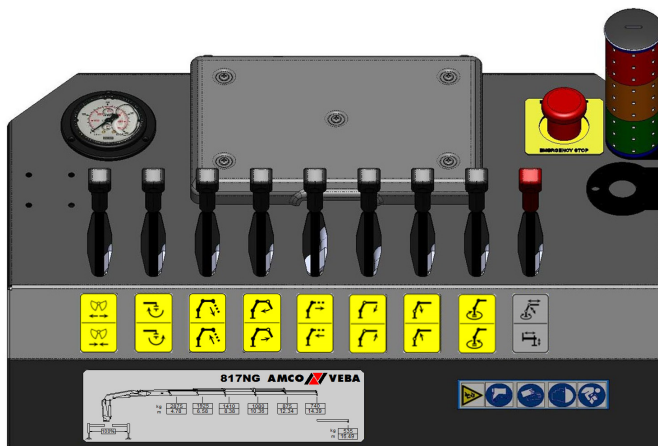
- main distributor mounted on top seat.
- crane controls on top seat.
- stabilizers controls under the seat.
- 3XL on top seat (for CE cranes only).

RADIO CONTROLS (RDC)

This version is equipped with:

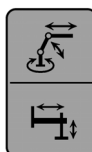
- main distributor mounted on the crane's base.
- a housing designed to hold the radio transmitter on the top seat
- crane and stabilizers controls on crane's base, as for the RDC version without top seat.
- 3XL or 4XL on crane's base (for CE cranes only).

B.4.2 CRANE CONTROLS ON TOP SEAT



FLOW DEVIATION LEVER (NO CE, NO RDC)

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



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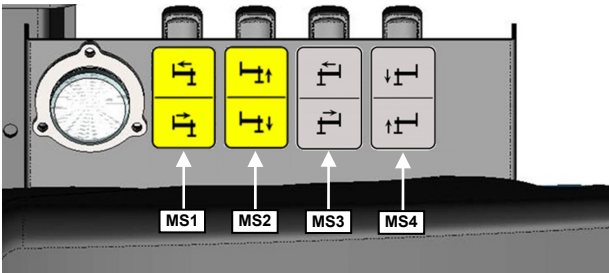
TOP SEAT

USE

CRANE CONTROLS

MA2 (OPTION)		MA1 (OPTION)	MJ2	MJ1	MG4	MG3	MG2	MG1
								
Grab / Bucket	Rotator	Hoist	Jib extension	Jib boom articulation	Hydraulic extensions	2 nd boom articulation	1 st boom articulation	Column slewing

B.4.3 STABILIZERS CONTROLS UNDER THE SEAT



STABILIZERS CONTROLS

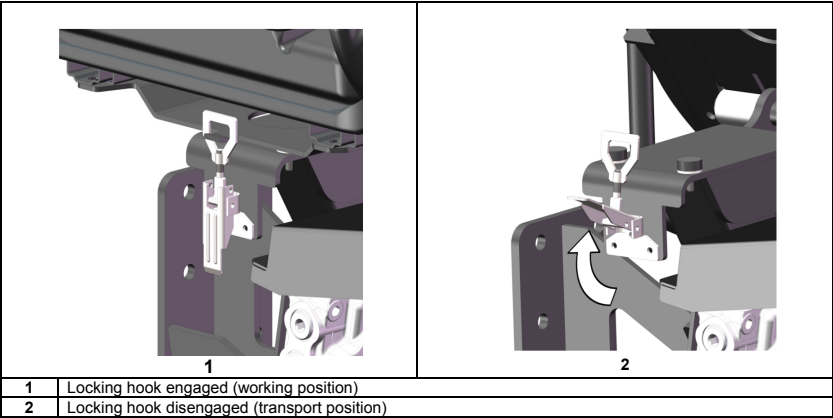
MS1 (OPTION)	MS2	MS3 (OPTION)	MS4
Stabilizers on column side		Stabilizers on opposite column side	



USER MANUAL
TOP SEAT
Use

B.5 SAFETY DEVICES
B.5.1 SEAT LOCKING HOOK

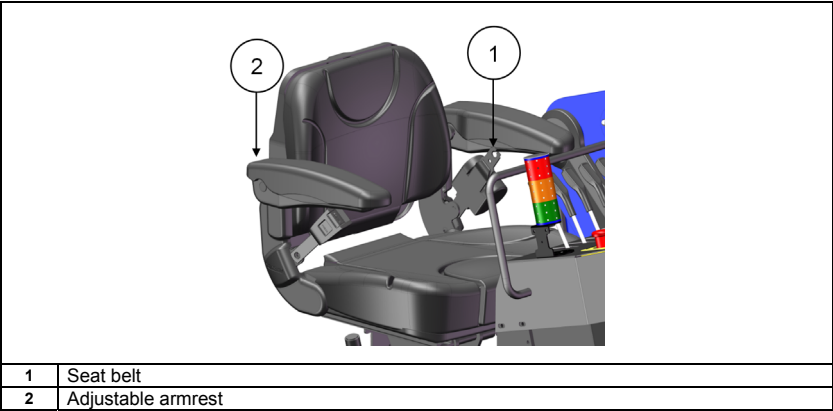
LOCKING HOOK



Raise the lever to disengage the hook.
Turn the seat upwards to minimize the overall dimensions and to protect the seat during transport.

B.5.2 SEAT BELT

SEAT BELT



Fasten the seat belt before operating the crane.
Refer to the seat user manual for other informations.



USER MANUAL

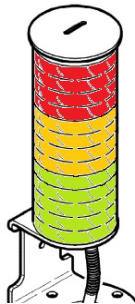
TOP SEAT

Use

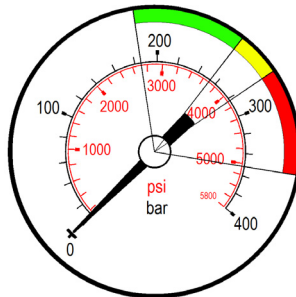
B.6 INDICATORS ON TOP SEAT

B.6.1 LOAD INDICATORS

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



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



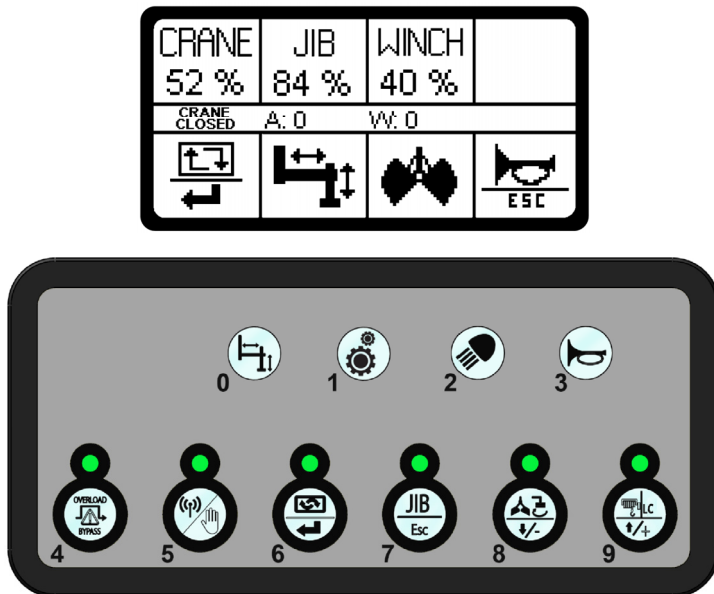
USER MANUAL

TOP SEAT

USE

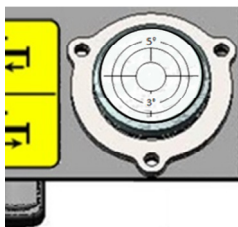
B.6.2 3XL MAIN DASHBOARD

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 which shows the inclination of top seat.
Available for CE cranes only.



B.7 OPERATING THE CRANE FROM TOP SEAT

Operating the crane from the top seat requires to pay close attention due to the following:

- the user could have an incomplete view of stabilizers and working area
- the crane stability must be taken into great consideration
- the user could be subject to movements and vibrations
- exhaust gases produced by vehicle could reach the top seat

B.7.1 ADDITIONAL PRELIMINARY CHECKS BEFORE OPERATION

Before using the crane check that

- top seat's structure, bolted connections, safety devices and all warning labels are intact.
- the top seat is clean and free of oil and grease



If any of the above conditions is not fulfilled, stop work immediately, perform the necessary maintenance and if necessary contact an authorised assistance centre.

B.7.2 HOW TO ENTER AND LEAVE THE TOP SEAT

Procedure to enter the top seat:

- 1) Climb the ladder grasping strongly the seat's frame.
- 2) Lower the seat into working position and engage correctly the locking hook (see B.5.1.).
- 3) Enter the top seat, sit down carefully and fasten the seat belt.

Procedure to leave the top seat:

- 1) Unfasten the seat belt and stand up carefully
- 2) Exit the top seat and grasp strongly the frame.
- 3) Disengage the seat locking hook and lift the seat into transport position (see B.5.1.).
- 4) Go down the ladder.



USER MANUAL

TOP SEAT

MAINTENANCE

C MAINTENANCE

C.1 ORDINARY MAINTENANCE

The following routine maintenance shall be performed by the user:

- cleaning
- visual structural inspection

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

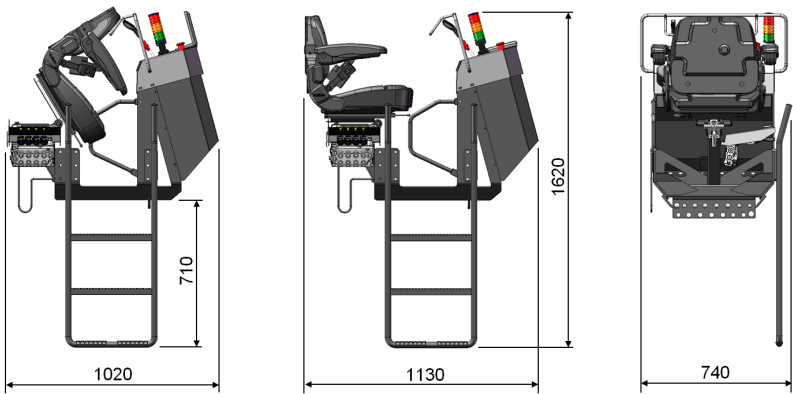


USER MANUAL
TOP SEAT
ANNEXES

D.1 TECHNICAL DATA

Weight of top seat with manual controls (NO RDC)	 kg	165
Weight of top seat without manual controls (RDC)	 kg	110
Max. allowable load	 kg	150

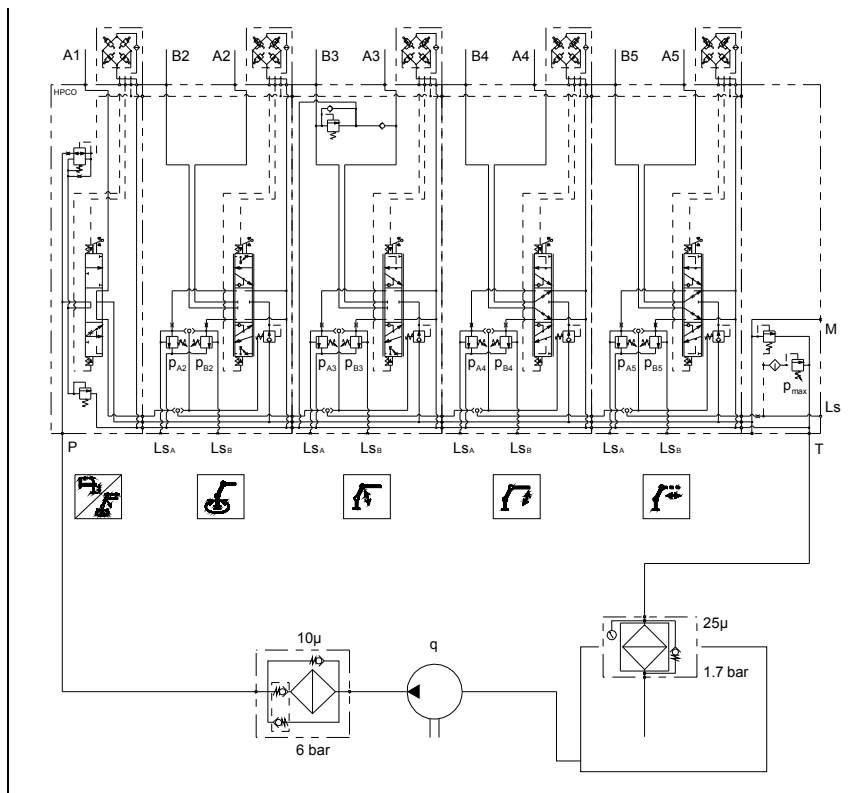
D.2 OVERALL DIMENSIONS



D.3 HYDRAULIC SCHEMATICS

DISTRIBUTOR FOR MANUAL CONTROLS

NO RDC - CE



1030196

Settings:

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

USER MANUAL
TOP SEAT
ANNEXES

D.4 WARNING LABELS

Label	Position	Description
	At controls on the top seat	Read the operator's manual Wear helmet, gloves, industrial footwear Warning: do NOT bang on the booms during opening and folding of the crane



USER MANUAL

TOP SEAT

ANNEXES

D.5 MAINTENANCE REGISTER

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

MAINTENANCE SCHEDULE		SERVICE 500
Top seat mounting bolts	☐	
Hoses, fittings and hydraulic connections	☐	
Main valve fittings	☐	
Safety devices (seat locking hook, seat belt)	☐	

Inspection and maintenance operations performed by

Authorized assistance center	
Signature	Date

MAINTENANCE SCHEDULE		SERVICE_000
Top seat mounting bolts	☐	
Hoses, fittings and hydraulic connections	☐	
Main valve fittings	☐	
Safety devices (seat locking hook, seat belt)	☐	
General structural conditons of ladder and top seat	☐	
Visible welds	☐	

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
TOP SEAT
ANNEXES

D.6 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



