

ORIGINAL INSTRUCTIONS - according to Directive 2006/42/EC, Annex I, 1.7.4.1

MK 07

MK 10

MK 13

MK 15

Multi kit pulverizer MK series

OPERATOR'S MANUAL

Part number 51544735

1st edition English

October 2018



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SAFETY

PAR.	DESCRIPTION
1	General instructions

1. GENERAL INSTRUCTIONS

The operator's safety is one of the CASE CONSTRUCTION's principal concerns. In constructing a new **attachment**, we attempt to foresee all possible situations of danger and, obviously, adopt suitable safety measures, paying a great deal of attention to operations that are especially dangerous. CASE CONSTRUCTION will not be liable for the failure to follow the safety and accident prevention instructions in this Manual.



Before making the *attachment* operational, the instructions contained in this manual must be carefully read and the information given carefully followed.

CASE CONSTRUCTION has provided the **attachment** with all the protections and safety devices considered necessary and, in addition, has accompanied it with sufficient information for its safe and correct use.

To this end, when necessary, every chapter contains the following information for every man-**attachment** interaction:

- Minimum required operator qualifications;
- Number of operators necessary;
- State of the **attachment**;
- Residual risks;
- Necessary or recommended individual protective devices;
- Prevention of human errors;
- Prohibitions/obligations relative to reasonably foreseeable incorrect behavior.

**ATTENTION!**

This information must be scrupulously obeyed.

The user may supplement the CASE CONSTRUCTION's information with additional instructions that, obviously, do not conflict with what is shown in the Manual to contribute to the safe use of the **attachment**.

Anyone working on the **attachment** must pay attention to the clothing he is wearing.

- Avoid the use of clothing with parts that could get snagged in the **attachment**;
- Avoid wearing ties or other flapping articles of clothing;
- Avoid wearing rings or bracelets that could catch ones hands in the components of the **attachment**.

When necessary, the Manual will provide additional recommendations for preventive measures to taken by the user, individual protection devices, helpful information for avoiding human errors and prohibitions against reasonably foreseeable prohibited behaviors.

In any case, it is indispensable to follow the following instructions diligently:

- It is absolutely forbidden to operate the **attachment** with the fixed protections dismantled;
- It is absolutely forbidden to inhibit the safety devices installed on the **attachment**;
- Washing must be performed with the hydraulic separation devices disconnected;
- Do not modify any parts of the **attachment**;
- CASE CONSTRUCTION will not be responsible for malfunctions caused by a failure to respect the above.

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ATTACHMENT DESCRIPTION

PAR.	DESCRIPTION
5	Technical data

5. TECHNICAL DATA

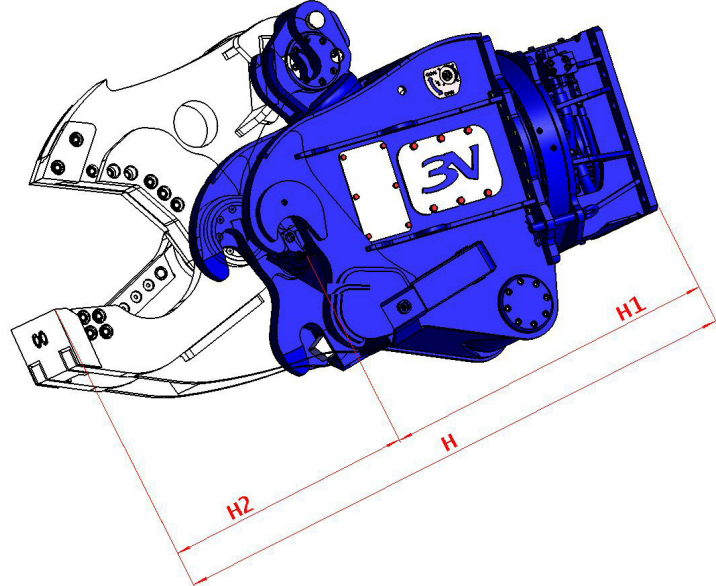


Fig. 3.5.1

Model		MK 07	MK 10	MK 13	MK 15
Excavator weight	t.	07 : 09	09 : 12	12 : 18	18 : 25
Excavator model		CX75C CX80C CX85D SR CX90D	CX130D CX145D	CX160D CX180D	CX210D CX245D
Body weight*	kg.	410	570	795	1205
H1**	mm.	810	1000	1055	1220
Working pressure	bar	280	310	310	310
Oil flow	l/min.	80 / 150	150 / 250	180 / 250	180 / 250
Rotation		↻	↻	↻	↻
Max rotation pressure	bar	140	140	140	140
Max rotation oil	l/min.	10	10	10	10

Tab. 3.5.1

* The weights listed above do not include the attachment saddle.

** H = H1 + H2

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USE OF THE ATTACHMENT

PAR.	DESCRIPTION
1	Putting into operation

1. PUTTING INTO OPERATION



1st level machine operator: an operator with no specific skills, only capable of performing simple duties, i.e., operating the machine through the use of the buttons on the pushbutton pad and loading and unloading the materials used during production with the protections installed and active; not qualified to use the machine in jog mode.

Before putting the **attachment** into operation, proceed as follows:

- Check all the safety systems;
- Check the protections and signage.

Before putting the **attachment** in operation, it is necessary to perform a series of checks and controls to prevent errors or accidents while putting it in operation.

- Check that the **attachment** has not been damaged during mounting;
- Carefully check the integrity of the hydraulic hoses, valves and various components;
- Check that all moving parts are moving freely, including any rotation;
- Check that the hydraulic connections are tight to prevent dangerous leaks.



ATTENTION!

Carefully perform a visual inspection of the entire **attachment** and make sure that there are no objects or persons obstructing its normal operation or objects inadvertently left on it.

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USE OF THE ATTACHMENT

PAR.	DESCRIPTION
2	Kit replacement

2 KIT REPLACEMENT FOR MODELS WITH HYDRAULIC QUICK COUPLER SYSTEM



Maintenance mechanic: a qualified technician capable of operating the machine under normal conditions, operating it with the jog command with the protections deactivated, working on mechanical components to perform the necessary adjustments, maintenance and repairs. **Typically not qualified to work on electrical systems under voltage.**



ATTENTION!

Kit replacement operations must be performed using appropriate lifting means and maintaining a safe distance when moving the **attachment**.



DANGER!

Removing the kits requires wearing adequate IPDs (gloves, goggles, safety shoes and appropriate clothing).

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MAINTENANCE

PAR.	DESCRIPTION
4	Scheduled maintenance

4. SCHEDULED MAINTENANCE



Maintenance mechanic: a qualified technician capable of operating the machine under normal conditions, operating it with the jog command with the protections deactivated, working on mechanical components to perform the necessary adjustments, maintenance and repairs. **Typically not qualified to work on electrical systems under voltage.**

Scheduled maintenance includes inspections, checks and maintenance to guarantee the constant efficiency of the **attachment**.

Scheduled Maintenance Table:

INTERVENTION	TIMING	STATE OF THE ATTACHMENT
Grease the hinges and thrust block and replace any damaged greasers (see Fig. 6.4.2).	Every 8 h	Isolation for maintenance
Check that the screws of the connection saddle are not loose or damaged.	Every 8 h	Isolation for maintenance
Check that the screws of the rotation thrust block are not loose or damaged.	Every 8 h	Isolation for maintenance
Check that the screws holding the interchangeable teeth and/or blades are not loosened or damaged.	Every 8 h	Isolation for maintenance
Check the play between the pins and bushings of the saddle connection (if the play is greater than 0.6 mm, replace the bushings or pin).	Every 40 h	Isolation for maintenance
Lubricate the pinion and the teeth of the rotation thrust block (see Fig. 6.4.2).	Every 40 h	Isolation for maintenance
Use a thickness gauge to check the play between the blades, which must be between 0.2 and 1.2 mm. If the play is greater, insert the appropriate shims (Chap. 6.5).	Every 40 h	Isolation for maintenance
Check the integrity of the gaskets of the rotation thrust block.	Every 6 months	Isolation for maintenance
Check the cylinder oil leakage internally and externally.	Recommended max every 12 months	Isolation for maintenance

Table 6.4.1

MAINTENANCE

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