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

CB 18S
CB 27S
CB 37S
CB 80S
CB 90S
CB 135S
CB 150S
CB 240S
CB 290S
CB 370S
CB 470S
CB 570S
CB 800S

Hydraulic Hammer

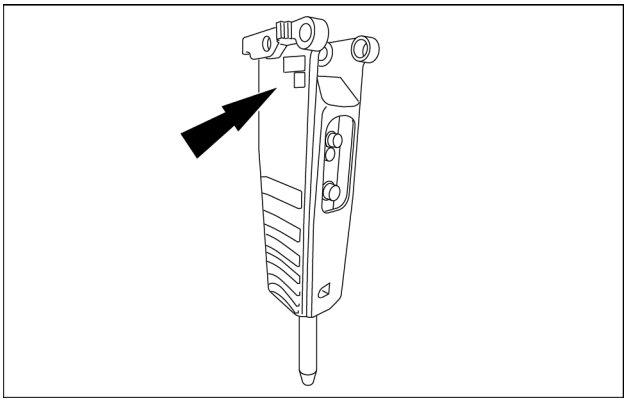
OPERATOR'S MANUAL

Part number 48194880
1st edition English
January 2018
Replaces part number 47393819

CASE CONSTRUCTION

IDENTIFICATION PLATE AND NOISE EMISSION LABEL

The identification plate and the Noise emission label are located on the top part of the hydraulic breaker.



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(1) Serial Number

(2) Weight

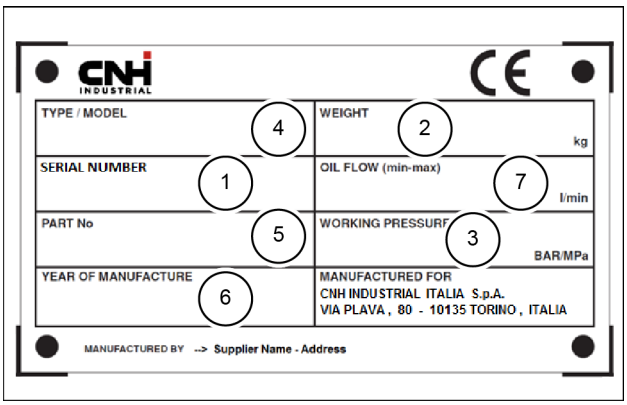
(3) Working pressure

(4) Type/Model

(5) Part number

(6) Year of manufacture

(7) Oil flow (min-max)



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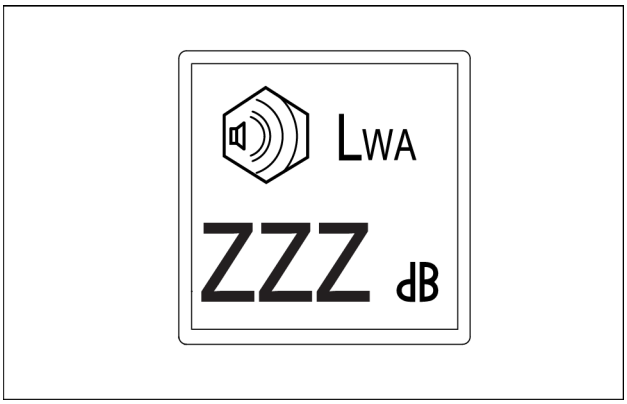
NOISE EMISSION

Sound power level guaranteed, determined in compliance with European Directive 2000/14/ EC.



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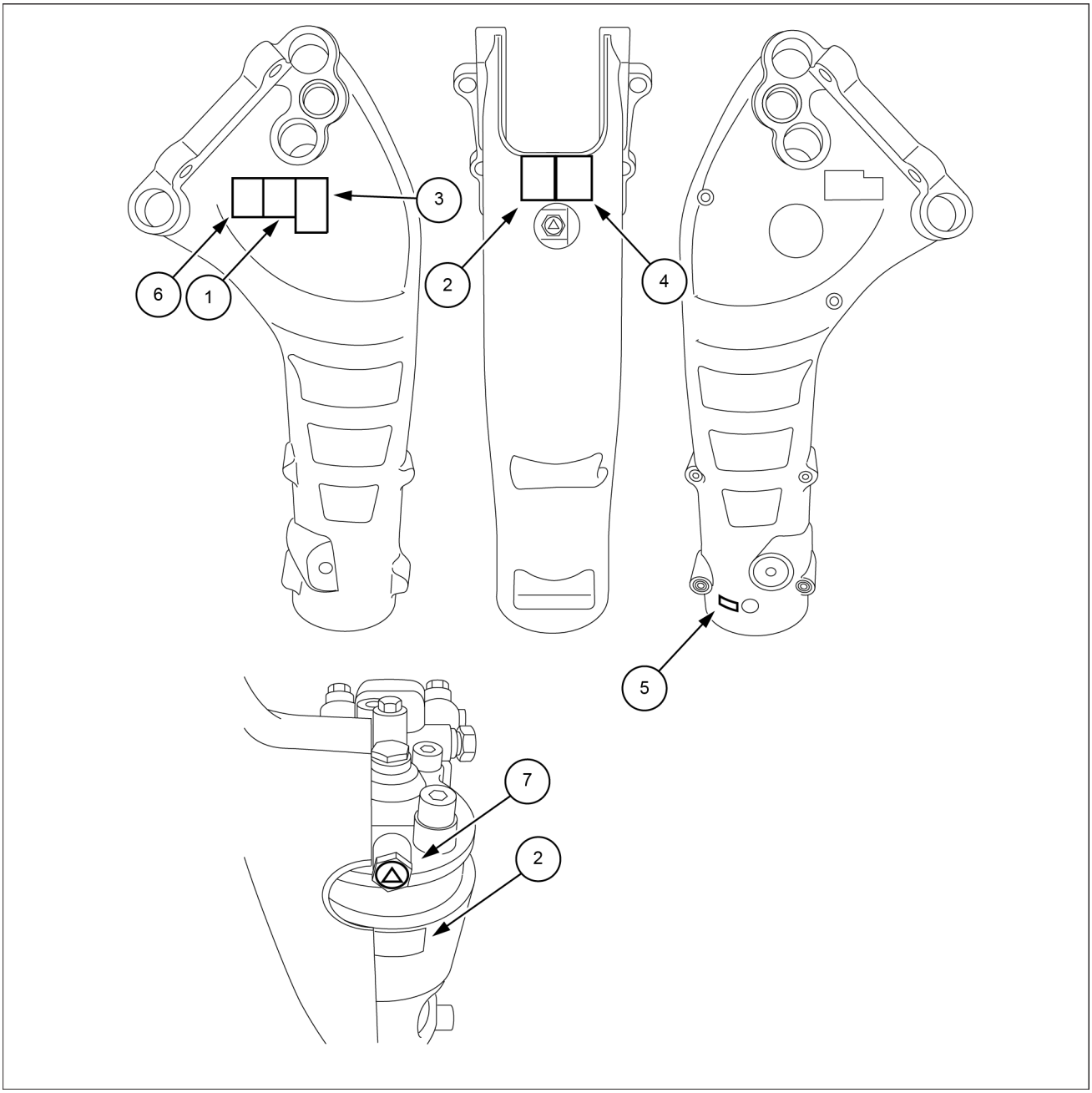
CB90S



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(1) Operator's Manual
(2) Accumulator
(3) Risk of flying pieces
(4) Ear protection
(5) Grease
(6) Dust Hazard
(7) Hard Pressure Hazard

HANDLING THE ATTACHMENT

⚠ WARNING

Improper operation or service of this machine can result in an accident.
Assign a supervisor to direct worksite operations. Agree on all safety measures, procedures, and suitable hand signals.
Failure to comply could result in death or serious injury.

W0287A

⚠ WARNING

Hazard to bystanders!
ALWAYS make sure the work area is clear of bystanders and domestic animals before starting this procedure. Know the full area of movement of the machine. Do not permit anyone to enter the area of movement during this procedure.
Failure to comply could result in death or serious injury.

W0245A

⚠ WARNING

Crushing hazard!
The lifting systems must be operated by qualified personnel who are aware of the correct procedures to follow. Make sure all lifting equipment is in good condition, and all hooks are equipped with safety latches.
Failure to comply could result in death or serious injury.

W0256A

⚠ WARNING

Avoid injury!
Always wear protective gloves when you handle wire rope cables.
Failure to comply could result in death or serious injury.

W1476A

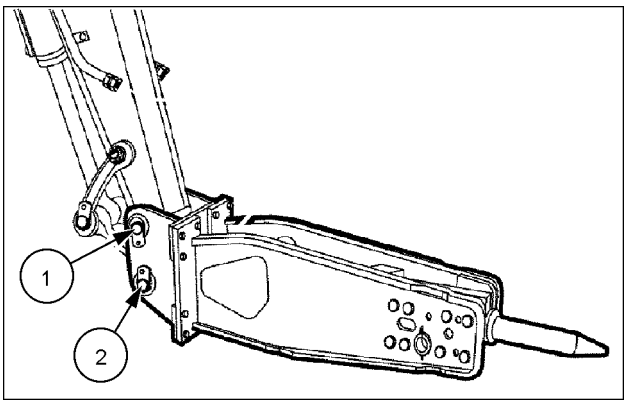
6. Slide the O-ring seals onto the inner bosses of the mounting bracket of the hydraulic breaker.

7. Remove the locking tools of the mounting pins. Check the locking tools for wear or damages. Make sure to properly store the locking tools in order not to damage them.

NOTE: *depending on machine model, the locking tool can be either a pin with snap ring, or a bolt with a double nut.*

8. Place a punch on the flat edge of the pin **(2)** , and push it out using a hammer. Make sure to properly store the pin in order not to damage it.

9. Remove the pin **(1)** and store it as described for the pin **(2)**.



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10. Get onto the cab, start the engine and place the gate lock lever in unlock position.

11. Gently retract the attachment cylinder in order to release the attachment connecting rod from the mounting bracket of the hydraulic breaker.

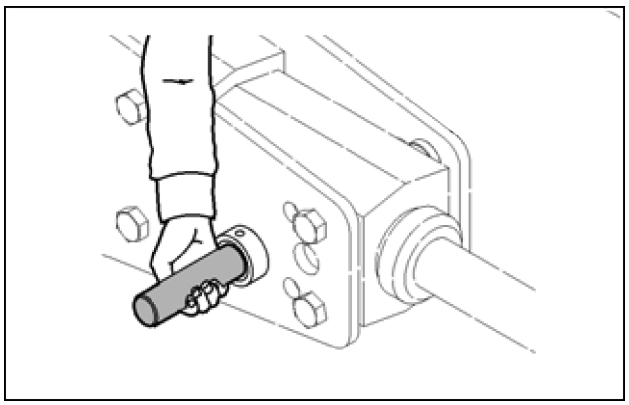
12. Gently operate the arm and boom controls in order to release the arm top from the mounting bracket of the hydraulic breaker.

13. Move the machine away from the breaker, and lower the arm top to the ground.

14. Place the gate lock lever in lock position, stop the engine and remove the starter key.

15. Check the O-ring seals and the mounting shims for wear or damages. Make sure to properly store the O-ring seals and the mounting shims in order not to damage them.

3. Push in the tool retaining pin.



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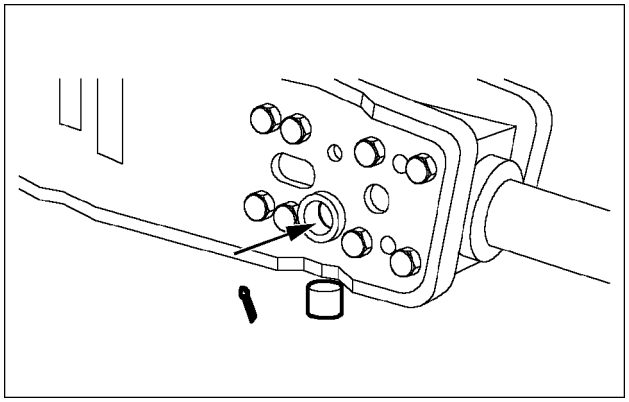
4. Install the O-ring, the plug, and the split pin that protect the retaining pin.



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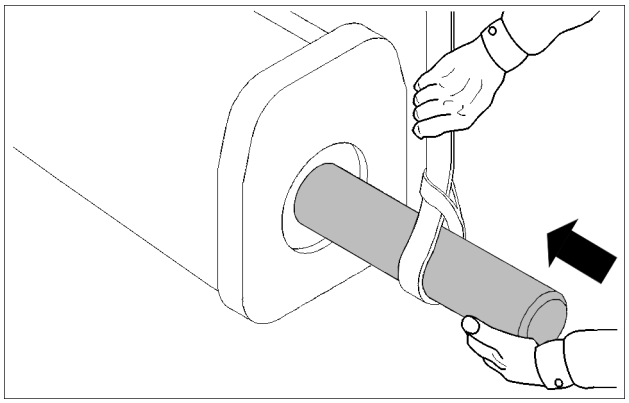
CB 240S, CB 290S and CB 370S models

1. Evenly coat the tool rod and the tool bushing with the prescribed grease.
2. Make sure to verify the proper orientation of the tool respect to the retaining pin, secure the tool with a sling, and insert it into the breaker.



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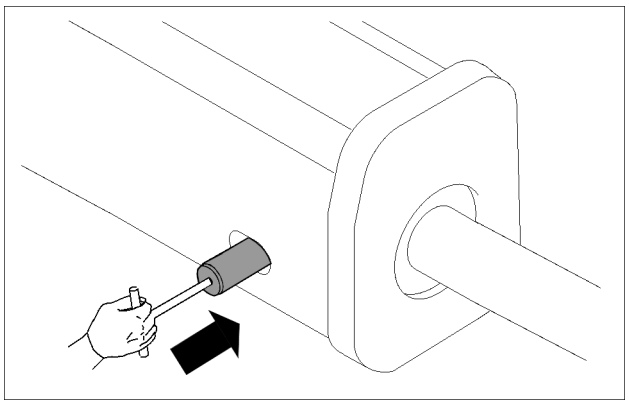
3. Push in the tool retaining pin by using a t-puller.



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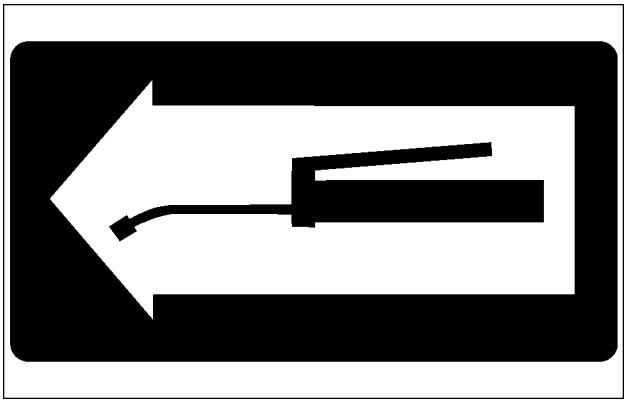
CB 18S to CB 150S models

Use a grease gun to inject the service lubricant onto the sliding part of the tool rod.

Make sure to identify the grease fittings indicated by the related decal.
Depending on breaker model, there may be 1 or 2 fittings: refer to page **1-8** to understand where the fittings are located on each breaker model.

NOTICE: *Replace grease fittings immediately in case of loss. Assemble them using Loctite. Failure to observe this instruction can cause severe damage.*



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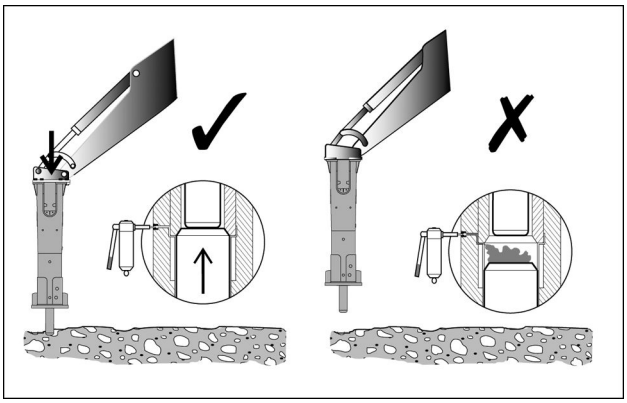
The reference greasing amount counts for 3-5 injections for models up to CB 135S, and for 5-10 injections for CB 150S model.

While greasing, the hydraulic breaker must be standing upright resting on the tool to ensure that the grease will penetrate downwards between the tool and the bushing.
Do not fill the space between the piston and the tool with grease. A failure of the inner piston seal can result and the hydraulic breaker will eventually leak oil.



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AUTOMATIC GREASING SYSTEM

Problem	Possible Cause	Correction
Upper or lower tool bushing does not get enough lubricant.	Cold conditions.	Apply grease from grease gun to grease nipples.
	Doser adjusting is wrong for the application.	The doser must be readjust. See page **4-2**.
	Blockage in greasing device.	Contact your local dealer for more information.
Upper or lower tool bushing get too much lubricant.	Doser adjusting is wrong for the application.	The doser must be readjust. See page **4-2**.
	Leak in the doser.	The doser must be replaced. Contact your dealer for more information. See page **4-2**.
Tool does not get lubricant at all.	Grease cartridge is empty or damaged.	Replace the grease cartridge. See page **4-2**.
	Doser defective.	The doser must be replaced. Contact your dealer for more information. See page **4-2**.
	Leak in the grease hose or pressure hose.	Inspect the hoses and replace if necessary.
	Grease and pressure hoses are installed backwards.	Swap the hoses. To continue troubleshooting, disconnect the grease hose from the hammer valve body and operate the hammer. After **10 min** of operation check if grease has protruded from grease hose.
Lubrication device is working (while the grease hose is disconnected).	Leak in hammer lubrication channel.	The breaker must be serviced in an authorized CASE CONSTRUCTION service shop.
	Hammer lubrication channel is blocked.	The breaker must be serviced in an authorized CASE CONSTRUCTION service shop.
Lubrication device does not work (while grease hose is disconnected.		Remove the lubrication device from the hammer and deliver it for service in an authorized CASE CONSTRUCTION service shop.

CB 150S model

Install weight (CX130D — CX145D SR)	**950 kg** (**2094.39 lb**)
Install weight (CX160D)	**970 kg** (**2138.48 lb**)
Impact rate	500-1000 Impacts/min
Operating pressure	**125 – 150 bar** (**1812.5 – 2175.0 psi**)
Min. relief valve setting	**175 – 200 bar** (**2537.5 – 2900.0 psi**)
Max. relief valve setting	**220 bar** (**3190.0 psi**)
Pressure in LP-circuit	**26 – 28 bar** (**377 – 406 psi**)
Fluid flow range	**60 – 120 l/min** (**60 – 120 US gpm**)
Max. back pressure	**10 bar** (**145 psi**)
Input power	**30 kW** (**40.8 Hp**)
Tool diameter	**95 mm** (**3.7 in**)
Pressure line connection IN	BSPP internal **1 in**
Return line connection OUT	BSPP internal **1 in**
Grease connection (G)	BSPP **3/8 in**
Air connection (A)	BSPP **1/2 in**
Pressure line size (min. inner diameter)	**26 mm** (**1.02 in**)
Return line size (min. inner diameter)	**26 mm** (**1.02 in**)
Fluid temperature	**40 – 60 °C** (**104.0 – 140.0 °F**)
Maximum permitted fluid temperature	**-20 – 80 °C** (**-4.0 – 176.0 °F**)
Viscosity at operating temperature	30..60 cSt
Fluid viscosity range	20..1000 cSt
Noise level, guaranteed sound power level, LwA (*)	**126 dB**

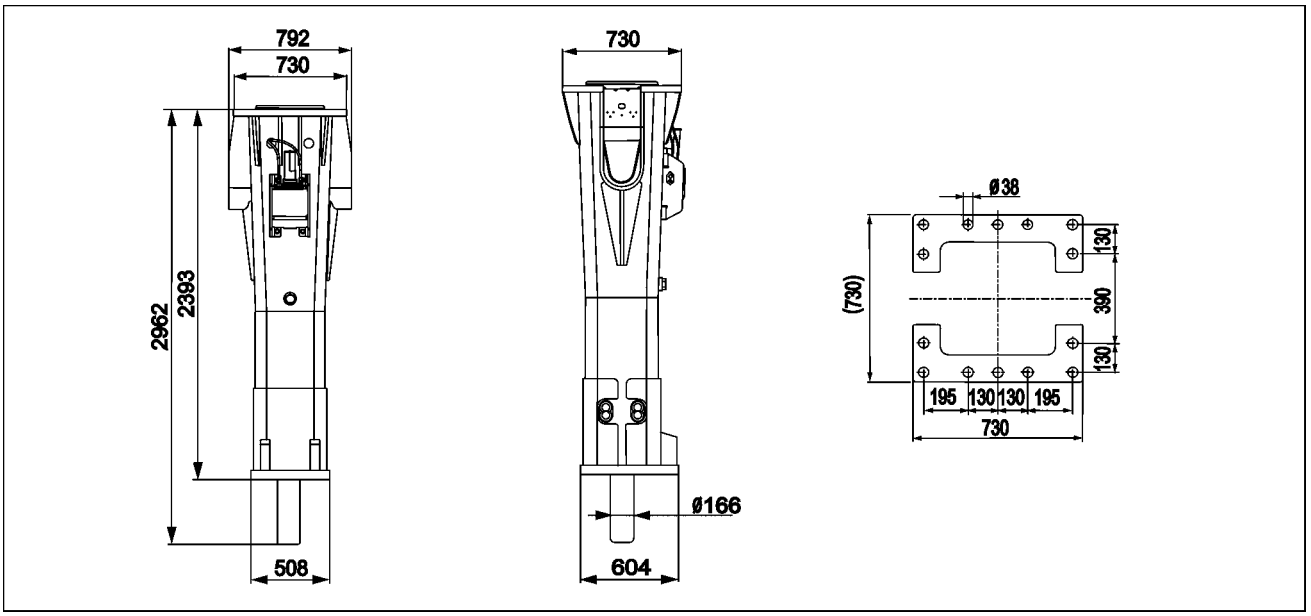
(*) According to **2000/14/EC**

CB 800S model

Install weight	**4890 kg** (**10780.60 lb**)
Impact rate, long stroke	370-530 Impacts/min
Impact rate, short stroke	450-620 Impacts/min
Operating pressure	**160 – 170 bar** (**2320 – 2320.0 psi**)
Min. relief valve setting	**220 bar** (**3190 psi**)
Max. relief valve setting	**230 bar** (**3335.0 psi**)
Fluid flow range	**280 – 380 L/min** (**73.97 – 100.39 US gpm**)
Max. back pressure	**10 bar** (**145.00 psi**)
Input power	**108 kW** (**146.84 Hp**)
Tool diameter	**190 mm** (**7.48 in**)
Pressure line connection IN	SAE **6000 psi 1 1/4 in**
Return line connection OUT	SAE **6000 psi 1 1/4 in**
Grease line connection	BSPP internal **3/8 in**
Air line connection	BSPP internal **3/8 in**
Pressure line size (min. inner diameter)	**32 mm** (**1.26 in**)
Return line size (min. inner diameter)	**32 mm** (**1.26 in**)
Fluid temperature	**40 – 60 °C** (**104.0 – 140.0 °F**)
Maximum permitted fluid temperature	**-20 – 80 °C** (**-4.0 – 176.0 °F**)
Viscosity at operating temperature	30..60 cSt
Fluid viscosity range	20..1000 cSt
Noise level, guaranteed sound power level, LwA (*)	**126 dB**

(*) According to **2000/14/EC**

CB 570 model "S" type



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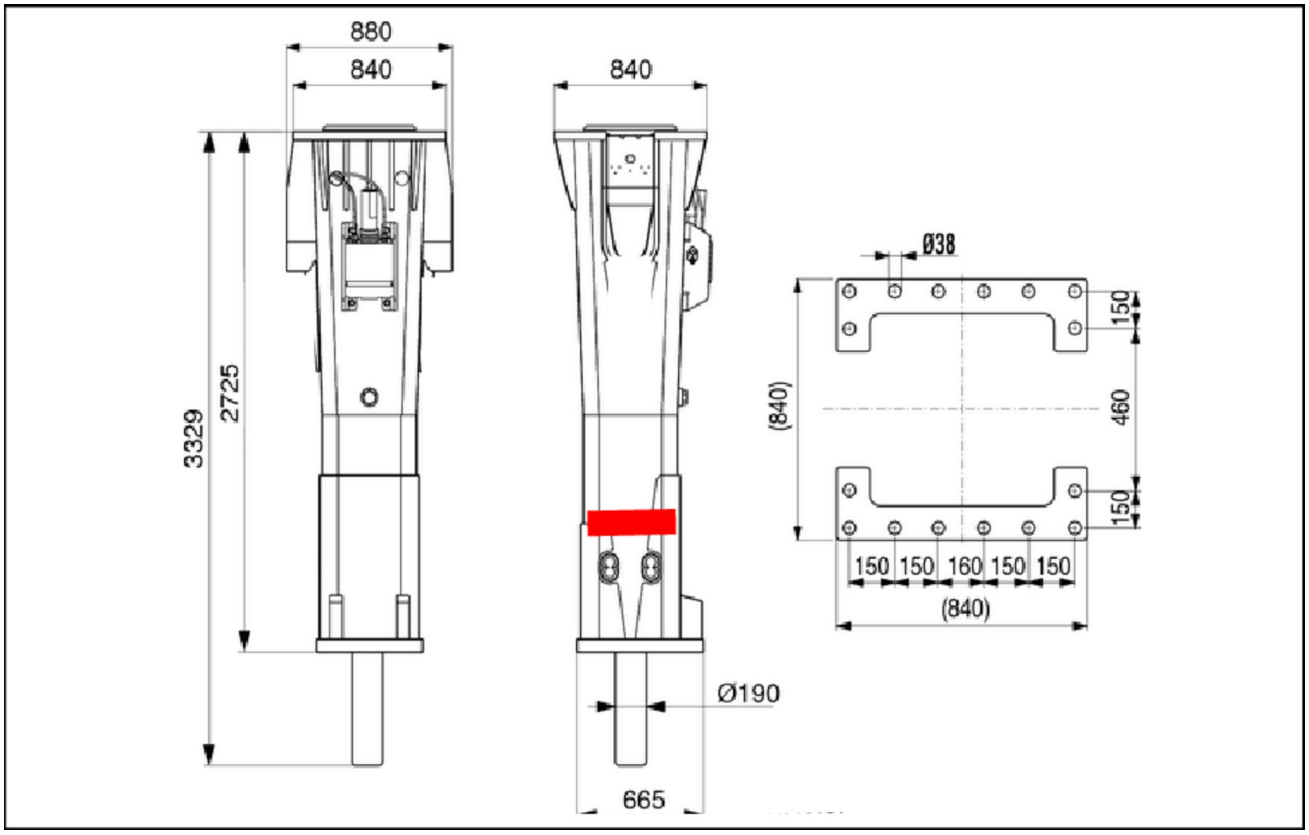
CB 800 model "S" type



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