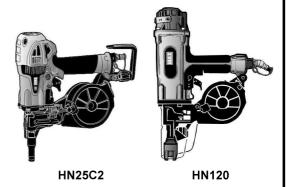




OPERATING INSTRUCTIONS MANUAL

HIGH PRESSURE CONCRETE & STEEL PINNER



Original Language: English

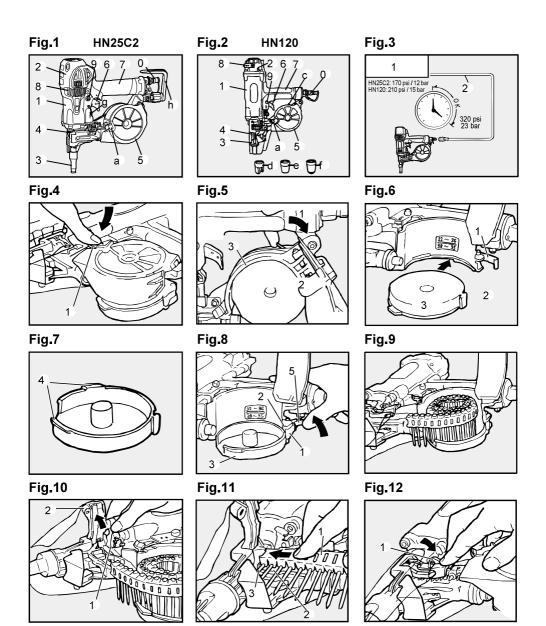


Fig.13 Fig.14 HN25C2 Fig.15 0 Fig.16 Fig.17 Fig.18 Fig.19 Fig.20 Fig.21

ENGLISH

OPERATING INSTRUCTIONS MANUAL

1. SPECIFICATIONS AND TECHNICAL DATA

1. NAME OF PARTS (SEE Fig.1, 2)

 (1) Frame
 (9) Trigger Lock Dial
 (17) Adjust Dial

 (2) Cylinder Cap
 (10) Plug
 (18) Belt Hook

(3) Contact Arm
 (4) Nose
 (5) Magazine
 (11) Magazine Cap Lever
 Adjust Dial
 Magazine Lock Lever

(6) Trigger (14) Attachment-A (For thin steel to concrete)

(7) Grip (15) Attachment-B (For wood to concrete or thick steel)
 (8) Exhaust Cover (16) Attachment-C (For light gauge track to concrete)

2. TOOL SPECIFICATIONS

PRODUCT NO.	HN25C2	HN120
HEIGHT	302 mm (12")	400 mm (15-3/4")
WIDTH	81 mm (3-1/4")	85 mm (3-3/8")
LENGTH	300 mm (11-3/4")	315 mm (12-3/8")
WEIGHT	2.0 kg (4 lbs.)	2.9 kg (6.4 lbs.)
RECOMMENDED OPERATING PRESSURE	12 to 23 bar (170 to 320 p.s.i.)	15 to 23 bar (210 to 320 p.s.i.)
LOADING CAPACITY	100 Nails	50 Nails
AIR CONSUMPTION	1.6 L at 18 bar / 257 p.s.i. operating pressure	4.7L at 23 bar / 322 p.s.i. operating pressure

3. FASTENER SPECIFICATIONS

PRODUCT NO.	HN25C2	HN	120
TYPE OF COLLATION	PLASTIC SHEET COLLATED PINS	PLASTIC SHEET COLLATED NAILS	PLASTIC SHEET COLLATED PINS
NAIL LENGTH	16 to 25 mm	32 to 65 mm	22 to 52 mm
	(5/8" to 1")	(.113" to .148")	(7/8" to 2")
SHANK DIAMETER	2.5 to 3.0 mm	2.9 to 3.8 mm	3.8 mm
	(.102" to .118")	(.099" to .113")	(.148″)
HEAD DIAMETER	6.3 mm	6.5 to 7.7 mm	7.2 to 8.0 mm
	(.248″)	(.256" to .303")	(.283" to .315")
HEAD THICKNESS	1.3 mm	1.0 to 1.5 mm	2.0 mm
	(.051″)	(.039" to .059")	(.079")
SHANK TYPE	Smooth, Step	Smooth, Screw	Smooth
SHAPE OF THE POINT	BALLISTIC POINT	DIAMOND POINT	BALLISTIC POINT

4. TECHNICAL DATA

NOISE

	HN25C2	HN120
A-weighted single-event sound power level — LWA, 1s, d	91.6 dB	99.8 dB
A-weighted single-event emission sound pressure level at work station LpA, 1s, d	84.1 dB	94.0 dB
Uncertainty	3	dB

These values are determined and documented in accordance to EN12549:1999+A1:2008.

NOTE: These values are tool-related characteristic values and do not represent the noise generation at the point of use. Noise at the point of use will for example depend on the working environment, the workpiece, the workpiece support, and the number of driving operations. In addition, reference should be made to noise reduction measures.

NOTE: Workplace design can also serve to reduce noise levels, for example placing workpieces on sound-damping supports (see also ISO 11690-1).

VIBRATION

	HN25C2	HN120
Vibration characteristic value	3.97 m/s ²	5.44 m/s ²
Uncertainty	1.5 m/s ²	

These values are determined and documented in accordance to ISO 28927-13

NOTE: The vibration emission value above is a tool-related characteristic value and does not represent the influence to the hand-armsystem when using the tool. Any influence to the hand-arm-system when using the tool will for example depend on the gripping force, the contact pressure force, the working direction, the adjustment of energy supply, the workpiece, the workpiece support.

5. APPLICATIONS

HN25C2	HN120
* A thin steel plate to concrete * A thin steel plate to a thick steel plate	A thin steel plate to concrete A wooden material to concrete A wooden material to a thick steel plate

6. ABOUT PRODUCTION YEAR

This product bears production number at the lower part of the grip of the main body. The two digits of the number from left indicates the production year.

(Example) 1 9 8 2 6 0 3 5 D T Year 2019

2. AIR SUPPLY AND **CONNECTIONS (Fig.3)**

A. <u>HOSES AND SUPPLY SOURCE</u>
WHEN USING THE TOOL. BE SURE TO USE A SPECIAL AIR COMPRESSOR AND AIR HOSE.

In order to improve its performance, it has set its working pressure higher than the conventional nailers. To use the tool, you always need the special air compressor 1 and the air hose 2 (MAX PowerLite Compressor and MAX PowerLite Hose). Use of high pressure gas (for example, oxygen, acetylene, etc.) causes abnormal combustion, possibly resulting in explosion. Use only the special air compressor and air hose.

B. OPERATING PRESSURE:

HN25C2: 12 to 23 bar / 170 to 320 p.s.i. HN120: 15 to 23 bar / 210 to 320 p.s.i.

Select the operating air pressure within this range for best performance based upon the fastener application and work surface. Using the lowest acceptable to minimize noise. vibration and wear.

A DO NOT EXCEED 23 bar / 320 p.s.i.

Frequent, but not excessive, lubrication is required for the best performance. Upon completion of operations, place 2 or 3 drops of oil into the air plug inlet with the jet oiler.

INSTRUCTIONS FOR OPERATION 3.

BEFORE OPERATION 1.

- Wear Safety Glasses or Goggles. 1)
- Do not connect the air supply. 2)
- 3) Inspect screw tightness.
- 4) Check operation of the contact arm & the trigger if moving smoothly.
- 5) Connect the air supply.
- Check the air leakage. (The Tool must not have the air 6) leakage.)
- Hold the Tool with finger-off the trigger, then push the contact 7) arm against the work-piece. (The tool must not operate.)
- 8) Hold the Tool with contact arm free from work-piece and pull the trigger. (The Tool must not operate.)
- Disconnect the air supply. 9)

OPERATION 2.

PIN / NAIL LOADING

- Lock the trigger and disconnect the air hose.
- 2) (Fig.4) First, push the magazine cap lever (1) to open the magazine cap.
- HN120 3)

(Fig.5) Check adjustment:

Release the magazine lock lever (1) to detach the magazine from the magazine hook, and remove the magazine (2) from the magazine holder (3).

(Fig.6 to 8) Determine the magazine direction in tune with the length of pins (or nails) used, fit the magazine collar (4) into the groove in the magazine holder, set the magazine hook (1) onto its mating part (2), and push the magazine lock lever (5) to secure the magazine (3). At shipment, the magazine has been set in the direction for the pin/nail length of 22 to 32 mm. When using 38 mm or longer pins/nails, set the magazine reversely. Be sure to set the magazine direction in tune with the length of pins (or nails) used. If used in the inadequate direction, the pins (or nails) are not fed properly.

(Fig. 6) For 22 to 32 mm, (Fig. 7) For 38 to 65 mm (Fig.9) Set the pins (or nails) and pull out the front end of the pin (or nail) coil.

- (Fig. 10) Push the door lever (1) to open the door (2).
- (Fig. 11) Push in the pin (or nail) coil (1) along the bridge (2) until it has reached the end. Pushing it in causes a feed pawl (3) to swing away in between the first and second pins (or nails). Stop pushing it there. Confirm that the first pin (or nail) has been entirely set

before the feed pawl (into the nose).

- (Fig. 12) Push the door to close it. Push the door firmly until the door lever has clicked.
- Close the magazine cap.
- Connect the air chuck to the air plug. You are now ready to drive the pins (or nails).

TEST OPERATION

- Adjust the air pressure at 12 bar (170 p.s.i.) for HN25C2 and 15 bar (210 p.s.i.) for HN120 and connect the air supply.
- Without touching the trigger, depress the contact arm against the work-piece. Pull the trigger. (The tool should fire the fastener.)
 - With the tool off the work-piece, pull the trigger.
- Then depress the contact arm against the work-piece. (The tool should not fire the fastener.)
- Adjust the air pressure as lowest as possible according to the diameters and length of the fastener and the hardness of work-piece.

DRIVING FASTENERS

This tool is assembled with FULL SEQUENTIAL ACTUATION.

FULL SEQUENTIAL ACTUATION OPERATION

For full sequential actuation operation, depress the contact arm against work surface and pull trigger. A fastener will be driven. Release both trigger and Contact Arm. Begin again.

	PROCEDURE
	 Pulling the trigger and keeping it pulled. Depressing the contact arm.
FULL SEQUENTIAL ACTUATION	The tool cannot fire a nail.

	PROCEDURE
	Depressing the contact arm. Pulling the trigger and keeping it pulled.
FULL SEQUENTIAL ACTUATION	The tool fires a nail. In order to fire a second nail, you should both release the Trigger and remove the Contact arm from the surface.

DRIVING DEPTH ADJUSTMENT DIAL (HN25C2)

Adjust the driving depth by twisting the adjustment dial as indicated below.



TRIGGER LOCK MECHANISM (Fig. 13)

This tool has a Trigger Lock. The trigger should be locked at all times until you intend to drive nail into the work surface. Push and rotate the trigger lock dial (1) clockwise from LOCK to UNLOCK position immediately before driving nails. When fastening is complete, push and rotate switch counterclockwise to LOCK position.

CONTACT TIP (HN25C2) (Fig.14)

AWARNING

 ALWAYS lock the trigger and disconnect air supply before replacing the contact tip.

Attach the contact tip (1) on the tip of contact arm (2), when driving nails to a soft material.

REPLACING THE ATTACHMENT (HN120)

The machine comes with the attachments B and C as accessories. See the following for the replacement method.

AWARNING

- ALWAYS lock the trigger and disconnect air supply before replacing the attachment.
- (Fig.15) Remove the attachment A (1) which has been attached at shipment; hold and draw it out with your hand, while holding it.
 - (Fig.16) If it is not smoothly drawn out, insert a regular screwdriver, etc. into the clearance Regular screwdriver between a contact arm (1) and it, and squeeze it to
- (Fig.17) Put down the attachment B or C (1), insert the contact arm (2) of the machine, and push it against to attach

REMOVING JAMMED NAILS

AWARNING

- · ALWAYS disconnect the air supply.
- · Wear gloves when removing jams; do not use bare hands
- Confirm that you have removed all nails from nose of tool before reconnecting to air supply.
- Disconnect the air supply.
- Open the tool door and remove nails from inside of the magazine.
- (Fig. 18) Open the door, put a punch through the ejection port and hit it with a hammer.
- (Fig.19) Remove the pins (or nails) jamming inside the nose, using the punch or a regular screwdriver.

HOW TO REMOVE USED PLASTIC SHEET COLLATION (Fig. 20) As nails are driven the plastic sheet will feed out of the tool. When 2" (50 mm) or more has been fed out it can be torn away by pulling against the tear edge in the nose.

TROUBLESHOOTING

HN120

 The Machine is not activated even if it is operated correctly. (Fig.21)

When the pins (or nails) are not fed properly, a locking mechanism works to deactivate the Machine. (Unless the feed pawl is completely OUT, it comes into contact with a feed pawl (1) retainer (2), disabling pin/nail driving work.) If the feed pawl is not located appropriately, remove the pins (or nails) and set them again.

- No pin (or nail) is driven even if the Machine is operated correctly.
- If the Machine is activated, but no pin (or nail) is actually driven, check the following:
- Check whether or not the pins (or nails) have been set properly onto the feed pawl.
- Check whether or not the pins (or nails) have come off the Plastic sheet
 - * If this is the case, cut off the empty Plastic sheet and set the pins (or nails) again.
- Check whether or not the feed pawl and feed piston are being activated.
 - * If not activated, apply 5 to 6 oil drips from the air plug.

APPLICATIONS AND PINS/NAILS SELECTION CRITERIA

The Machine is applicable to the following purposes. When using it, select the pins/nails and leg length suitable for the driving object.

●HN25C2

Application	Type	Size (Leg Length)	Attachment Used
A thin steel plate to the concrete Ex.: Drywall tracks When using, allow for the nature of the work piece and the conditions at the job site to comply with the Construction Standards.	Plastic Coil Pins	Thin Steel Plate Use of nails to secure the steel plate to the concrete causes them to recoil or endangering you. Be sur use pins to secure it to the concrete. Select the pins so that a penetration amount into the concrete will be encapprox. 15 to 25 mm (approx. 5/8" to 1")	te bend, re to he
A thin steel plate to a thick steel plate	Plastic Coil Pins	Thin Steel Plate Thick Steel Plate Thickness of a thick steel plate will be approx. 5 to 10 mm (3/16" to 3/8")	

●HN120

●HN120			
Application	Type	Size (Leg Length)	Attachment Used
Securing a thin steel plate to the concrete Ex.: Securing drywall tracks	Plastic Coil Pins	Thin Steel Plate Use of nails to secure the thin steel plate to the concrete causes them to recoil or bend, endangering you. Be sure to use pins to secure it to the concrete. Penetration Amount into Concrete Select the pins so that a penetration amount into the concrete will be 20 to 25 mm	Attachment-A, Attachment-C
Securing a wooden material to the concrete Ex.: Securing sill plates	Plastic Coil Nails	Vooden Material Select the nails so that a penetration amount into the concrete Reference Penetration Amount into Concrete Thickness Selected Penetration Amount into Concrete Vooden Material Nail Length Penetration Amount into Concrete Penetration Amount into Concrete Thickness Selected Penetration Amount into Concrete Vooden Material Nail Length Penetration Amount into Concrete Vooden Material Voode	Attachment-B Use of the attachment-A causes a nail sticking out to the wooden material.

Application	Type	Size (Leg Lengtl	h)	Attachment Used
material to a thick (steel plate (Plastic Coil Nails (For Steel Plate)	Wooden Material Sinks 2 to 5 mm (1/16" to 3/16") Penetration Amount Thick Steel Plate Select the nails so that a penetration amount into the thick steel plate will be 10 mm (3/8") or more.	 Drivable steel plate thickness is 3.2 to 4.5 mm (1/8" to 3/16"). Use the Machine only within these limits. Overdriving into the steel plate reduces a 	Attachment-B Use of the attachment-A causes a nail sticking out to the wooden material.

• The content of this manual might be changed without notice for improvement.



MAX EUROPE B.V.

Camerastraat 19 1322 BB Almere The Netherlands Phone: +31-36-546-9669 FAX: +31-36-536-3985

MAX USA CORP.

205 Express Street Plainview, NY 11803, U.S.A. TEL: 1-800-223-4293 FAX: (516)741-3272

www.max-europe.com (EUROPE Site) www.maxusacorp.com (USA Site)

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