

DIAMOND

DBR-32WH

REBAR STRAIGHTENER

HANDLING INSTRUCTIONS

READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING
TO USE REBAR STRAIGHTENER.

Ignorance of proper operating procedures can lead to accidents. If in doubt any
procedure, contact your nearest authorized agent.

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GENERAL SAFETY PRECAUTIONS

USAGE

Use DBR-32H on concrete re-inforcing bars only.

(See specifications in page 3.)

RESTRICT USE TO DESIGNATE MATERIALS

There is always a chance that the end of material may break and shoot out, especially if the material is harder than those specified. Exceeding designated material specifications greatly increase this risk and will also damage the tool. Do not attempt to use the tool for rebars harder, thicker or thinner than those specified (see page).

USE EYE PROTECTION

Wear safety goggles, safety glasses with side shields or a face shield when using rebar straightener.

KEEP HANDS AWAY

Do not touch rebar, housing, hook, rollers and piston while rebar straightener is being operated.

GUARD AGAINST ELECTRIC SHOCK

To avoid possible electric shock, do not handle DBR-32H with wet hands or use DBR-32H in the rain or damp places. Be aware of all power lines, electric circuits and other hazards that may be contacted, especially those that are below the surface or otherwise hidden from view.

UNPLUG TOOL

Disconnect tool from outlet when not in use and before cleaning, adjusting or servicing. Do not disconnect plug from outlet by pulling the cord. Always check that the switch lock is OFF

before plugging in.

BEWARE OF ENVIRONMENT

Do not use rebar straightener in the presence of flammable materials (e.g. paint, thinner, petroleum products, adhesives).

Do not use rebar straightener in a possibly explosive environment (e.g. an area containing fumes, gas or dust) or poorly ventilated areas.

KEEP WORK AREA TIDY AND WELL LIT

Make sure that work area is properly lighted and clear of obstructions. Operator should at all times have an unobstructed view of rebar straightener, rebar and surrounding area.

WEAR PROPER APPAREL

Do not wear loose clothes, dangling objects or jewellery. Restrain long hair. The use of safety-helmet and rubber soled boots is recommended. If safety gloves are worn, be especially careful that glove does not get caught in moving parts.

KEEP VISITORS AWAY

Keep all visitors at a safety distance from the work area for their own protection and to prevent distraction of the operator.

MAINTAIN REBAR STRAIGHTENER WITH CARE

Inspect rebar straightener before each application. Faulty or loose bending hook could result in personal injury. Keep handle dry, clean and free from oil and/or grease. Keep housing and piston free of dirt and iron filings. Check that no screws or bolts are loose or missing. Follow instructions for maintenance. Inspect switch, cord, plug and any extension cable at regular intervals.

STORE CAREFULLY

When not in use, store rebar straightener and accessories in a dry place where they cannot be accessed by unauthorized persons.

OPERATING INSTRUCTIONS

▲CAUTION : Indicates hazard that could result in minor personal injury and/or product damage.

CARE : Indicates hazard that will result in product damage.

PRE-USE CHECK

1. Check oil level. (See oil-check page 9.)

2. Check that the power source is appropriate to the rebar straightener.

CARE : If voltage is too high, the motor will burn out. If voltage is low, insufficient power will be generated. Never use DC current.

3. Check that power supply is properly earthed.

▲CAUTION : Failure to earth power supply may result in electric shock to operator.

4. Check that cord is undamaged and that plug is not loose.

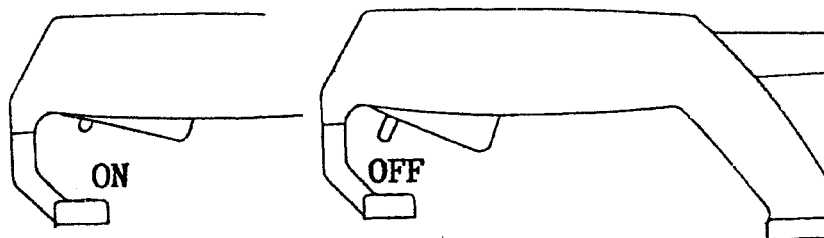
▲CAUTION : Cut or abraded covering could result in a short and electric shock to operator.

If an extension cable is to be used, make sure that it is undamaged and that it is the proper thickness for the length. See the table below.

Cable length	100/115V	230V
	Cable size (AWG)	Nominal diameter
Up to 10m (33 ft)	16	1.0 mm ²
Up to 15m (50 ft)	14	1.25 mm ²
Up to 30m (100 ft)	10	1.5 mm ²

5. Before plugging in, make sure that the switch lock is OFF.

CAUTION : If switch lock is ON, rebar straightener will start as soon as it is plugged in. To disengage lock, pull trigger-switch, lock-button will pop out.



WARM-UP

In cold weather, warm up unit for 30-60 seconds so that the hydraulic oil reaches the proper viscosity. Pull trigger switch to extend piston and release when it has reached its full stroke. Repeat 5-10 times.

POINTS OF ATTENTION

1. Do not cover air vents.

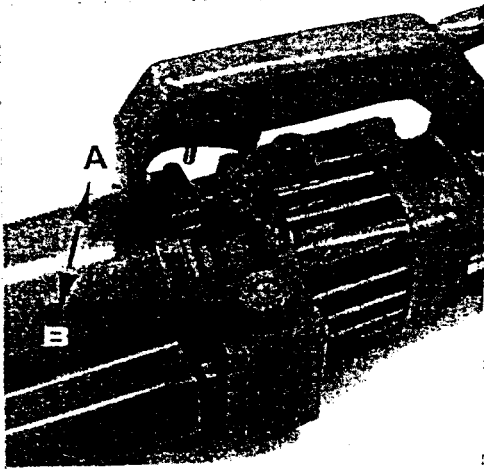
CARE : If vents are covered, motor will overheat and may burn out.

2. If hydraulic oil exceeds 70°C (158°F) in temperature, power will drop. Allow unit to cool before resuming operation. (Be particularly careful in summer, when the aluminium pumpcase heats up quicker.)

3. If a drop in power is observed and motor is unusually hot, check carbon-brushes.

OPERATION

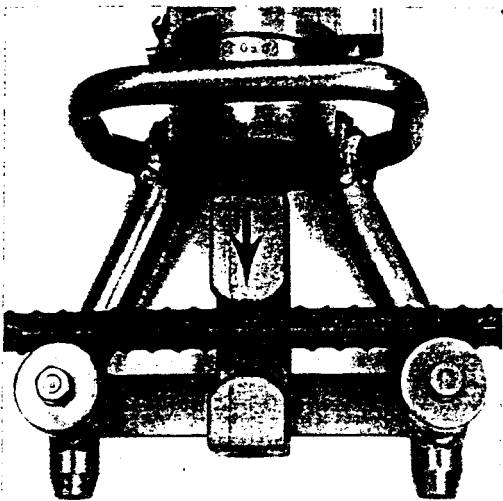
The DBR-32H is primarily intended to straighten deformed rebars. It can, of course, also be used to bend a straight rebar.



To enable the unit to be used in confined spaces, there are two operating modes: push and pull. The mode is selected by moving the mode control lever to the appropriate position: "A" for push (piston advances) and "B" for pull (piston retracts). In either mode, simply press the switch to move the piston.

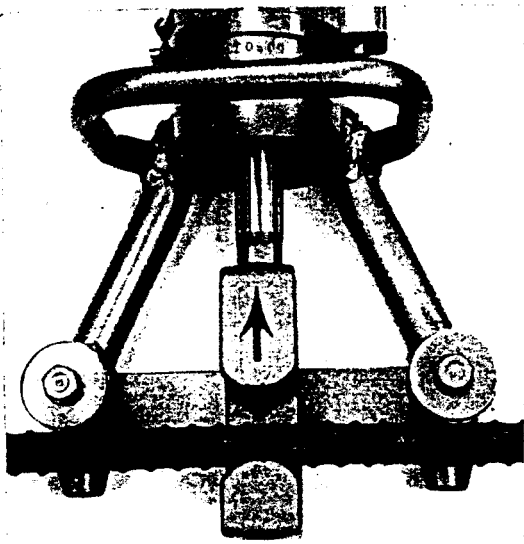
N.B. The movement of the piston is limited by a safety valve. To prevent overheating, release the trigger switch when the piston has reached its travel limit.

TO PUSH



Advance or retract the piston so that the hook is in a suitable starting position. Set the mode control lever to "A" and fit the rebar as shown at left. Pull the trigger switch until the rebar is at the desired angle.

TO PULL



Set the hook in the correct starting position. Make sure that the mode control lever is in the "B" position and fit the rebar as illustrated. Pull the trigger switch until the desired angle is attained.

N.B. It is important that the rebar be properly fitted in the hook and against the rollers.

INTERIOR ANGLE

Since the piston stroke is limited, interior straightening/bending angle will vary according to rebar diameter and operating mode.

Refer to the table below:

Rebar diameter	Straightening rebar capacity		Bending rebar capacity	
	Push	Pull	Push	Pull
13mm (1/2")	upto 125°	upto 121°	upto 94°	upto 92°
16mm (5/8")	128°	124°	90°	90°
20mm (3/4")	130°	126°	90°	90°
25mm (1")	132°	124°	90°	90°
29mm (1 1/8")	140°	135°	90°	90°
32mm (1 1/4")	144°	138°	90°	90°