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Pronto BC42 and BC52 Rebar Cutter

Heavy-Duty Steel Cutting Machine

OPERATING MANUAL

Models: BC42, BC52

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Published by Capital Machinery Sales Pty Ltd

WARNING: Do not operate this equipment without reading and understanding this manual.

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Quick Start

This page covers everyday use. Read Section 1 Safety before using the machine for the first time.



Movable guard (2), lifting eyebolt (3), motor (4), wheels (5). Main switch (1) is shown in Figure 4.1.

Before you start (every day)

- All guards are fitted and undamaged, and the cutting area is clear with no bar loaded.
- The blades are in good condition (Section 5.2).
- The gearbox oil is at the level shown on the sight glass.
- You are wearing gloves, overalls and safety footwear.

Cutting bars

1. Turn the main switch (1) to I.
2. Lift the movable guard (2).
3. Insert the bar between the blades from left to right, and position it at the cutting point. Use the adjustable guide to keep it square to the blades.
4. Lower the guard. The machine cannot cut unless the guard is lowered.
5. Pull the lever fully out, or press the pedal fully down, to make the cut.
6. Release the lever or pedal, and push the bar forward for the next cut.

Stopping

Turn the main switch (1) to 0, check the machine is not engaged, and unplug it. Leave the guard lowered.

WARNING: Risk of fingers being crushed or severed. Never reach into the cutting area. If the lever or pedal is operated while the machine is off with the guard closed, a single cut can start on its own at the next start-up.

1 Safety

1.1 General safety

Read this manual before using the machine, and keep it with the machine.

- Only trained and authorised people may use, set up or maintain the machine. One operator only.
- Use the machine only for cutting steel reinforcing bar (rebar) for the construction industry, within the limits in Section 2.
- Wear safety gloves and safety boots, plus any other PPE listed in Section 1.2. No loose clothing or jewellery, and tie back long hair.
- Keep the work area clean, dry, well lit and clear of offcuts.
- Never remove, bypass or modify any guard, safety device or safety sign.
- Never clean, oil or adjust the machine while it is running.
- Electrical work must only be done by a licensed electrician.
- In a fire, isolate the power and use a dry powder or CO2 extinguisher. Never use water on electrical equipment.
- Report any damage or fault, and do not use the machine until it is repaired.

Do not use the machine to:

- cut materials other than steel reinforcing bar
- cut bars larger than the sizes in Section 2
- work in an explosive atmosphere.

The machine is designed and built to meet the essential safety requirements of the relevant safety standards.

1.2 Machine specific hazards

Personal protective equipment

The operator works from the front of the machine. Always wear:

- gloves when handling bars, to prevent cuts and abrasions
- overalls, to protect against residual risks during work
- safety footwear, to prevent feet being crushed by falling bars.

Residual risks

WARNING: Risk of fingers being crushed or severed. Risk of feet being crushed by falling bars. Risk of unexpected start-up: if the pedal is pressed accidentally while the machine is switched off with the movable guard closed, the cutting mechanism engages and the clutch locks the guard closed. If the machine is still engaged at the next start-up, a single cutting cycle starts automatically without any action by the operator. The cutting area remains protected by the closed guard.

Operating precautions

- No other person may enter the work area while the machine is in use.
- Before switching on, check the cutting area is clear and no bar has been loaded.
- Never reach into the cutting area with your hands.
- Provide a safe bar support and loading system, so feet cannot be crushed during cutting.
- Insert bars from left to right.

- To make a cut, always pull the lever fully out or press the pedal fully down.
- Only work on or maintain the machine when it is switched off and unplugged.
- Tampering with the machine, or removing guards or machine parts, creates hazards for the operator and anyone nearby.

Electrical safety

WARNING: Protection against electric shock depends on correct connection to earth. The electrical installation the machine is connected to must comply with all applicable legislation. The socket outlet must be protected upstream by an RCD with a rated tripping current of no more than 30 mA. Use only extension leads rated for the machine's power. Keep leads between the plug and the machine out of traffic areas, and protect them from damage and mechanical stress.

Noise

The continuous A-weighted sound pressure level is less than 75 dB(A), averaged at 1 m from the machine.

1.3 Safety devices



Figure 1.1: Guards and protective devices

Ref.	Device	Function
A	Frame and fixed guard	Prevent access to moving parts.
B	Movable guard (2), hinged to the frame	Mechanically prevents the blade from operating while the guard is open. Operating the lever or pedal mechanically locks the guard closed.
D	Connecting rod cover	Fixed cover enclosing the connecting rod and drive mechanism. Prevents access to moving parts.
	Thermal overload relay	Protects the electric motor against overload.

Table 1.1: Guards and protective devices

- Main switch (1): turns the motor on (I) and off (0).
- Anti-repeat device: allows only one cut each time the lever or pedal is operated.

NOTE: When the guard is open, the machine cannot be engaged under any condition, whether the machine is on or off.

2 Specifications

Specification	BC42	BC52
Max. bar diameter, R = 65 kg/mm ²	36 mm	46 mm
Max. bar diameter, R = 85 kg/mm ²	32 mm	36 mm
Power supply	415 V three-phase, 50 Hz	415 V three-phase, 50 Hz
Motor	4 kW	4 kW
Speed	6 rpm	6 rpm
Weight	600 kg	725 kg
Dimensions (L × W × H)	1270 × 800 × 1090 mm	1400 × 780 × 1090 mm

Table 2.1: Model data. The maximum bar diameter depends on the tensile strength (R) of the bar.

Specification	Both models
Blades	Two identical tool-steel blades (one fixed, one moving), four cutting edges each
Noise	Less than 75 dB(A) at 1 m
Operating temperature	–5 to +40°C
Relative humidity	30 to 90% (at 20°C)
Grease	Stauffer grade 2
Gearbox oil	See Table 5.2

Table 2.2: Common data

NOTE: The electrical system is configured to suit the customer's requirements. Always check the electrical data on the control switchboard before connecting the machine (Section 3.4). The model, serial number and year of manufacture are on the identification plate.

3 Installation

3.1 On delivery

The machine is supplied on a wooden pallet, wrapped in plastic, with the wheels not fitted. These items are supplied fixed to the frame:

- wheels
- oil can
- four hex (Allen) keys for maintenance
- adjustable spanner
- locking pin, locking pin compression spring and cut-off cover plate tension spring.

Before positioning the machine, and after any transport, check the machine has not been damaged by knocks or drops that could affect how it works.

3.2 Lifting and fitting the wheels

The size and weight of the machine are in Section 2. Lift the machine with a crane or overhead crane attached to the lifting eyebolt (3).

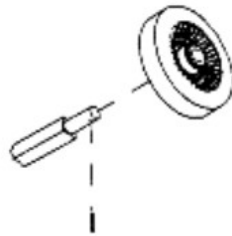


Figure 3.1: Fitting a wheel

1. Lift the machine by the lifting eyebolt (3).
2. Fit the wheel onto the axle pin.
3. Insert the split pin into the hole in the axle pin.
4. Using pliers, bend outwards the two ends of the split pin that stick out the other side of the hole.
5. Lower the machine to the ground.

3.3 Site

- A power supply near the machine.
- A well lit area, so the machine can be operated and serviced safely.
- Enough room for the machine and the material to be loaded.
- At least 1 m from walls. The control switchboard and the cutting area, including the material to be cut, must always be easy to reach.
- Protected from the weather. Operating temperature -5 to $+40^{\circ}\text{C}$, relative humidity 30 to 90% (at 20°C).
- A smooth, level floor strong enough for the weight of the machine and the material.

3.4 Electrical connection

Before connecting the machine, check the electrical data on the control switchboard match the power supply, in particular the voltage (V), frequency (Hz), and current (A) or power (kW).

- Steady-state voltage: within $\pm 10\%$ of the rated voltage.

- Frequency: within $\pm 1\%$ of the rated frequency continuously, and within $\pm 2\%$ for short periods.
- For other supply characteristics, such as harmonics, voltage unbalance, interruptions and voltage dips, refer to the relevant electrical standards.
- Generators do not always meet these requirements, so run the machine from the mains supply where possible.
- Install an automatic protection device on the site distribution board with a breaking capacity greater than the maximum prospective short-circuit current at the point of supply.

CAUTION: An unsuitable power supply reduces machine performance and can cause permanent damage.

Connect the machine using a cable that:

- has a socket matching the plug fitted to the machine (IEC 60309, 3P+PE)
- has a cross-section, length, quality and condition that keep voltage drop below 10%
- is insulated from the operating environment.

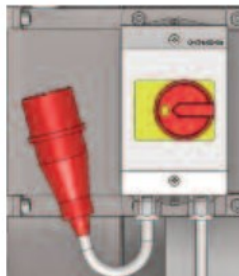


Figure 3.2: Plug and control switchboard

3.5 Earthing

WARNING: The electrical safety of the machine depends on a correct earth connection. The supplied power cable and plug must be connected to earth.

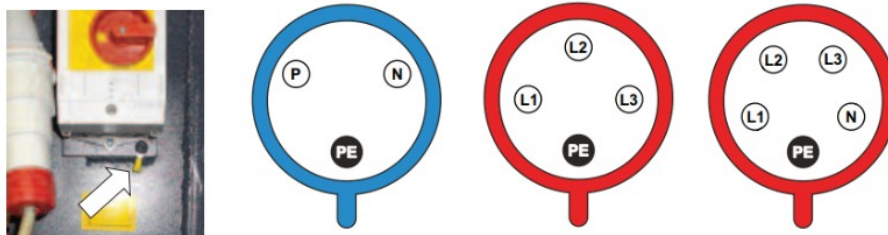


Figure 3.3: Earth terminal (left) and IEC 60309 plug pin configurations

A dedicated earth terminal is on the back of the machine (Figure 3.3). It must be used if the electrical installation has no earth:

- Connect one end of a bare braided copper conductor (minimum cross-section 16 mm²) to the earth terminal.
- Connect the other end to an earth electrode.

The earth electrode must be driven deep into reasonably damp, conductive ground. Alternatively, a copper plate may be buried deep underground.

4 Operation

4.1 Controls

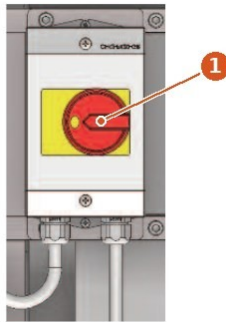


Figure 4.1: Main switch (1)

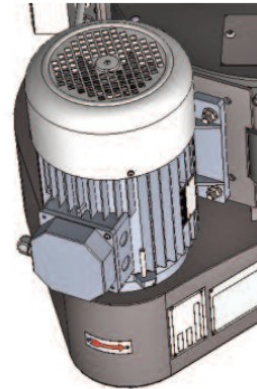


Figure 4.2: Rotation arrow on the motor fan guard

Item	Control	Function
1	Main switch	Turn to I to start the motor, and to 0 to stop it.
2	Movable guard	Lift to load the bar. Lower to cut. The machine cannot cut while it is open.
	Lever	Pull fully out to make one cut.
	Pedal	Press fully down to make one cut.
	Adjustable guide	Aligns the bar with the blades and keeps it square to them.

Table 4.1: Controls

How it works: the motor (4) drives a flywheel pulley through a pulley and two belts. The flywheel turns a drive pinion and gear wheel. A clutch unit on an eccentric shaft moves the blade connecting rod, which carries the moving blade. The moving blade cuts the bar against a fixed blade on the machine body. The anti-repeat device, operated by the lever or the pedal, allows only one cutting cycle each time.

4.2 Switching on

WARNING: Make sure the guard is lowered, the cutting area is clear and no bars are loaded. Risk of fingers being crushed or severed during unexpected start-up. If the lever is pulled or the pedal pressed while the machine is off with the guard closed, the cutting mechanism engages and the clutch locks the guard closed. If the machine is still engaged at the next start-up, a single cut starts on its own. When the guard is open, the machine cannot be engaged, whether on or off.

1. Turn the main switch (1) to I.
2. Check the motor turns in the direction of the arrow on the motor fan guard (Figure 4.2). If it does not, switch off and have two of the three phase wires in the supply cable swapped.

CAUTION: Running the motor in the wrong direction may damage the machine.

4.3 Cutting bars

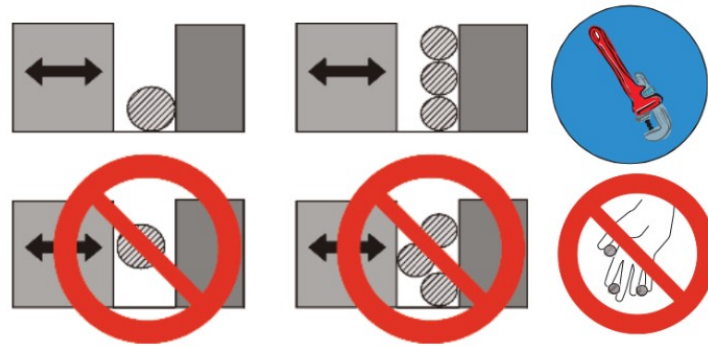


Figure 4.3: Correct (top) and incorrect (bottom) bar positioning

Precautions

- Never reach into the cutting area with your hands.
- Use the adjustable guide to keep the bar square to the blades.
- Do not load more bars than the number specified for each diameter.
- When cutting several bars at once, do not hold them by hand. Hold them vertically with tongs or another gripping tool.
- Depending on the bar size, provide a way to collect short offcuts under the chute on the discharge side, and good support on the discharge side for very long bars. For long, awkward bars, use the bar roller to help slide the bar into position.

Cutting procedure

1. Lift the movable guard (2).
2. Insert the bar between the blades from left to right, and position it at the cutting point.
3. Lower the guard. The machine cannot cut unless the guard is lowered.
4. Pull the lever fully out, or press the pedal fully down, to make the cut. The anti-repeat device stops the blade moving continuously.
5. Release the lever or pedal.
6. Push the bar forward. The machine is ready for the next cut.

NOTE: A film of oil on the blade is normal, as the connecting rod must be kept lubricated.

4.4 Switching off

1. Turn the main switch (1) to 0.
 2. Check the machine is not engaged.
 3. Unplug the machine to isolate it.
- Leave the machine with the guard lowered.

5 Maintenance and Troubleshooting

WARNING: Switch off and unplug the machine before any maintenance. Maintenance must be done by skilled people in line with all applicable safety regulations. Refit all guards and check the safety devices before use.

5.1 Maintenance schedule

When	Task
Daily	Keep the work area clean. Check the blades and replace them if needed. Check the gearbox oil level at the sight glass, and top up through the filler plug if needed.
Weekly	Grease the connecting rod (Section 5.3). Check the blade screws and the connecting rod guide plate screws are tight.
Every 150 operating hours	Rotate the blades to a new cutting edge. If all edges are worn, replace the blades.
Yearly	Change the gearbox oil completely. Replace components subject to wear.

Table 5.1: Maintenance schedule

CAUTION: Keep the gearbox oil at the correct level and grease the connecting rod every week. Damage caused by poor maintenance is not covered by warranty (Section 6).

5.2 Blades

Bars are cut by two identical tool-steel blades, one fixed and one moving. Each blade has four cutting edges, and only one is in use at a time. About every 150 operating hours, rotate each blade so a new edge replaces the worn one. Replace the blades after 600 operating hours, when all four edges have been used.

Changing or rotating the blades

1. Switch the machine off.
2. Make sure the guard is lowered.
3. Switch the machine on and then straight off again.
4. Press the pedal to make a cutting stroke, so the blade moves out.
5. Unplug the machine before doing any further work.
6. Undo the screws holding the blades to the blade holder.
7. Refit each blade so a new cutting edge replaces the worn one. If all four edges are worn, replace the blade.

5.3 Greasing

Every week, grease the points marked in Figure 5.1 with Stauffer grade 2 grease.



Figure 5.1: Greasing points (marked with red boxes)

5.4 Gearbox oil

Brand	Below 10°C (50°F)	10 to 20°C (50 to 68°F)	Above 20°C (68°F)
ROL OIL	EP 320	EP 460	EP 680
ESSO	SPARTAN EP 320	SPARTAN EP 460	SPARTAN EP 680
MOBIL	MOBILGEAR 632	MOBILGEAR 634	MOBILGEAR 636
SHELL	OMALA 320	OMALA 460	OMALA 680
AGIP	BLASIA 320	BLASIA 460	BLASIA 680

Table 5.2: Recommended gearbox oils by ambient temperature

- Check the oil level with the machine switched off, using the sight glass on the side of the machine.
- Top up through the filler plug on top of the machine. Do not fill above the level shown on the sight glass.
- Drain the oil through the drain plug at the bottom of the machine.

5.5 Troubleshooting

Problem	Cause	Fix
Motor turns against the arrow	Phase wires connected in the wrong order	Switch off. Have two of the three phase wires in the supply cable swapped (Section 4.2).
Machine will not cut	Movable guard open	Lower the guard fully.
A single cut starts on its own at start-up	Lever or pedal operated while the machine was off with the guard closed	Keep clear of the cutting area. Make sure the machine is not engaged before switching off (Section 4.4).
Poor or ragged cuts	Worn cutting edge, or bar not square to the blades	Rotate or replace the blades (Section 5.2). Use the adjustable guide.
Poor performance	Unsuitable power supply	Check the supply against Section 3.4.
Any problem that continues		Contact Capital Machinery Sales through capitalmachinery.com.au .

Table 5.3: Troubleshooting

5.6 Decommissioning, disposal and parts

To take the machine out of service without leaving residual risks:

1. Switch the machine off.
2. Disconnect the power cable.
3. Place a suitable container under the oil drain plug, then remove the plug to drain the gearbox.
4. If the machine is to be moved, follow Section 3.2.
5. Dispose of the machine through an approved waste collection centre.

CAUTION: Do not release oil or grease into the environment. Hand them to an authorised contractor for disposal through approved channels.

To order parts, contact Capital Machinery Sales with the machine model, serial number, year of manufacture and part description, from the identification plate. A photo of the part helps. The main wear parts are the blades.

6 Warranty and Support

6.1 Warranty

- Standard 12 month warranty, unless a different period is shown on the product page or your invoice.
- Covers replacement of any part or material found to be defective under normal working conditions. Misuse and damage are not covered.
- This warranty is in addition to your rights under the Australian Consumer Law. Full terms are at capitalmachinery.com.au.

Not covered by warranty

- Using non-genuine parts, or parts not supplied or approved by Capital Machinery Sales, including consumables such as blades. Any damage this causes is not covered.
- Tampering with, opening or modifying the machine or its sealed components.
- Incorrect power connection.
- An unsuitable operating environment, poor maintenance, work by unauthorised people, excessive use, or not following this manual.

6.2 Making a warranty claim

Lodge your claim online at capitalmachinery.com.au/warranty-claim. Have your invoice number and date of purchase ready, and describe the problem. Photos or a short video help us resolve it faster. Our team will reply by email with the next steps.

6.3 Service and parts

For service, spare parts (including replacement blades) and support, visit capitalmachinery.com.au. Have the model, serial number and year of manufacture from the identification plate ready.

6.4 Revision history

Revision	Date	Description
Rev 0	15/10/2026	First issue in standard layout



Capital Machinery Sales has supplied, serviced and supported workshop machinery across Australia for over 20 years, backed by more than 30 years of hands-on industry experience.

Sales, service and spare parts

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Warranty claims: capitalmachinery.com.au/warranty-claim

Hallam, Victoria