



# CKC Civil Construction Equipment Pty Ltd

Ph/Fax – (07) 3881-2862 --- Mob – 0427-006-765

eMail – [info@ckcequipment.com.au](mailto:info@ckcequipment.com.au)  
Web – [www.ckcequipment.com.au](http://www.ckcequipment.com.au)

PO Box 41  
Strathpine, QLD, 4500

1

## Instructions for using and maintaining you CKC Pipe Cut and Bevel Tool

For PVC and Ductile Iron Pipes.

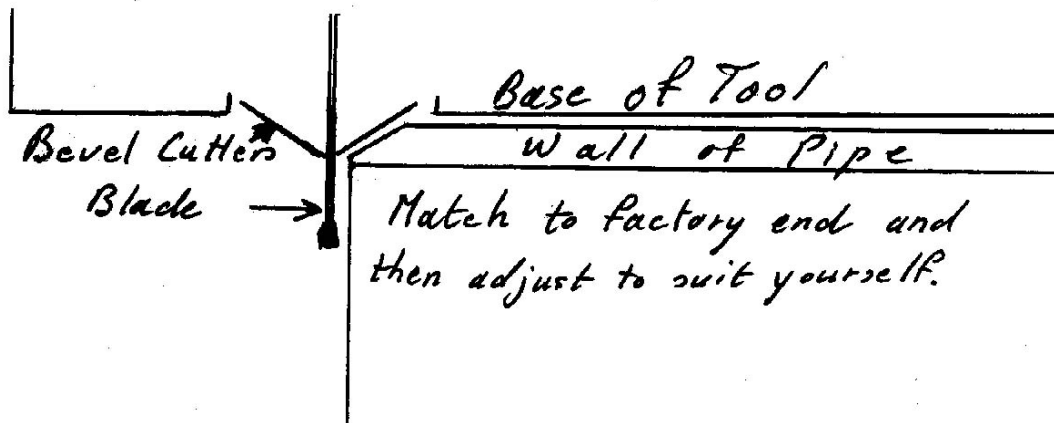
This tool is designed to replace the cut off saw for common pipe jointing. It will cut and bevel in one pass. One needs to go slightly beyond the starting point of the cut to complete the bevel. Similarly the off cut which has fallen away may need to have the bevel completed.

The tool retains all the safety mechanisms built into the chainsaw - ie. a clutch, safety grip on the throttle and a brake mechanism on the chain drive.

The guide plate is sprung forward to protect the cutters and personnel.

### Adjustment

With the engine stopped start with the hinged guide plate forward and adjust it rearwards until the end of the pipe engages the saw and cutters. The greatest depth of cut is directly below the shaft. If the pipe requires a shallower cut keep the pipe forward of the shaft, this way you will not be able to get a deeper cut than intended. A good way to start is to set it up on the end of a factory bevelled pipe and match that. Having established the setting you want, record it by scribing the angle on the side plates or mark with a felt pen.



### Keep the guide surfaces clean.

An occasional application of “Spray and Cook” will reduce friction on these surfaces. Also use on the truck brackets if you have them.

When cutting Ductile Iron have some detergent handy to wash the filings away. Spray chain with WD40 and blow water out with compressed air before storage..

**Never use Ethanol blended fuels in two stroke motors!** Use Stihl two stroke oil at 50:1, other oils at 25:1 or as per the power head owners manual supplied with your machine.



# CKC Civil Construction Equipment Pty Ltd

2

Ph/Fax – (07) 3881-2862 --- Mob – 0427-006-765

eMail – [info@ckcequipment.com.au](mailto:info@ckcequipment.com.au)

Web – [www.ckcequipment.com.au](http://www.ckcequipment.com.au)

PO Box 41

Strathpine, QLD, 4500

## Starting

Place the machine on a flat surface, engage the choke by first squeezing the throttle and throttle release and setting the choke lever. As soon as the engine coughs release the choke one notch and start. Make sure the clutch brake is released.



## Operation

Use as you would use a chain saw but do keep both the guiding plates firmly engaged with the wall of the pipe so that you do not wind up with a spiral cut.

*Start with the adjustable guide plate firmly against the pipe and while running the machine at high revolutions lower the cutters onto the pipe until the fixed guide/base plate is firmly against the pipe. At this time the pipe may be rotated or in the case of a large pipe the machine may be advanced. The tool will guide its self – just keep it firmly in contact with the pipe – top and side. **KEEP THE REVOLUTIONS UP.** The weight of the machine will do the job just balance it with your finger and thumb on the throttle and it will return to start. There is no need to steer/guide it.*





# CKC Civil Construction Equipment Pty Ltd

Ph/Fax – (07) 3881-2862 --- Mob – 0427-006-765

eMail – [info@ckcequipment.com.au](mailto:info@ckcequipment.com.au)  
Web – [www.ckcequipment.com.au](http://www.ckcequipment.com.au)

PO Box 41  
Strathpine, QLD, 4500

Preferably the pipe should be rotated away from the operator. On large pipes you may have to check that you are going to end up exactly where you started before the completion of your cut. The lower plate is notched for this purpose. Mostly though this is just for your peace of mind and not needed.



Not all PVC pipes are exactly circular! Large pipes where possible are most easily done if the pipe is rolled away from the operator as the cut is being made. Should you find yourself working with any of the old 27mm thick pipes you may have to insert a larger saw blade. To keep the unbevelled portion to a minimum the blade used should be kept as small as possible.

For engine details consult the engine manufacturer's handbook supplied with your machine.

Remember – **the chain still needs oil!!**

The tool may be stood on its end or flat as shown. In either event the blade and cutters will not touch the surface on which it is stood. Use the flat position for starting and use ear and eye protection when operating.



Whenever possible use the truck brackets or a similar support system for ease of operation. Heavy or large pipes will have to be worked on the ground using pipe rollers.



# CKC Civil Construction Equipment Pty Ltd

Ph/Fax – (07) 3881-2862 --- Mob – 0427-006-765

eMail – [info@ckcequipment.com.au](mailto:info@ckcequipment.com.au)

Web – [www.ckcequipment.com.au](http://www.ckcequipment.com.au)

PO Box 41  
Strathpine, QLD, 4500



If rolling the pipe is not convenient cuts may be done  $\frac{1}{4}$  at a time by moving the tool on the stationary pipe and then rotating it between cuts.

If the engine loses power check the air intake – the pvc shavings are light and can get sucked in to the air intake.



# CKC Civil Construction Equipment Pty Ltd

Ph/Fax – (07) 3881-2862 --- Mob – 0427-006-765

eMail – [info@ckcequipment.com.au](mailto:info@ckcequipment.com.au)  
Web – [www.ckcequipment.com.au](http://www.ckcequipment.com.au)

PO Box 41  
Strathpine, QLD, 4500



When cutting Ductile iron with machines equipped with a water supply and diamond cutters check from below that the coolant nozzles are spraying properly as otherwise the diamond coating may be stripped off.

**Do not attempt to cut fibre glass pipe with this tool. The tool steel cutters will be ruined in very short order. Quartz is used as filler in these pipes and fibre glass is very abrasive. However the diamonds handle it well and the water takes care of the dust.**



# CKC Civil Construction Equipment Pty Ltd

Ph/Fax – (07) 3881-2862 --- Mob – 0427-006-765

eMail – [info@ckcequipment.com.au](mailto:info@ckcequipment.com.au)

Web – [www.ckcequipment.com.au](http://www.ckcequipment.com.au)

PO Box 41

Strathpine, QLD, 4500

6

## SAFETY NOTES FOR PIPE CUTTING and BEVELLING TOOL

### USE EYE AND EAR PROTECTION.

**Do not go sticking fingers where they should not be!!**

The chain still needs lubrication oil or you will be needing a new bar.

Since the chain is not running unless your hand is on the throttle you should be quite safe but do have a careful look at the machine with regard to your working conditions and practices. Support the pipe in one of the ways shown and work with the cutters below the machine and then the chances of getting cut should be zero. While the engine will run upside down this is not recommended as the off cut will jam the blade and there would be greater potential to cut the wrong thing. The brackets off the side of the truck are recommended as you are then working at a comfortable height.

The lower plate is sprung forward so that after the cut it protects the blade and cutters preventing accidental engagement with persons or objects when not in use.

**.Stop the engine while adjusting or working on the tool.**

In short – put your brain into gear before proceeding – even hand tools can deliver bad cuts.



# CKC Civil Construction Equipment Pty Ltd

Ph/Fax – (07) 3881-2862 --- Mob – 0427-006-765

eMail – [info@ckcequipment.com.au](mailto:info@ckcequipment.com.au)  
Web – [www.ckcequipment.com.au](http://www.ckcequipment.com.au)

PO Box 41  
Strathpine, QLD, 4500

## Some notes for Working on the Pipe Cutting and Bevelling Machine

For the engine please see the handbook book supplied with the machine.

### To change the cutters or blade

Remove the guards and the base plate with the allen key provided.

Holding the shaft with a set spanner, loosen the retaining nut with a 15/16 spanner. Note the rotation when replacing the cutters. Take care not to lose the dowel on the shaft which engages with the inner bevel cutter.

We will be operating a sharpening service for these cutters while the blades are replaceable or can be taken to a saw sharpening service. There are cheap blades available at the hardware stores but the blades supplied are of Australian manufacture and will hopefully serve you well and long.

### To replace the drive chain

As above, remove the guards and base plate.

Loosen the bar retaining nut/s on the power head and slacken the chain.

Remove the cover on the power-head and separate the motor from the tool.

The chain may now be replaced. **INSPECT THE SPROCKET ON THE MOTOR.** If the sprocket is showing signs of wear check the rim sprocket behind the cutters and if necessary replace all three. The quickest way to ruin a new chain is to fit it to worn sprockets. If the bar is showing signs of wear this should be replaced as well.

We are able to supply these four components individually or as a set. The bar is specially made and cutter-less chain is not common. Your local chainsaw shop may or may not have the sprockets in stock. However as a backup service we will endeavour to always have what you need in stock.

**The mounting direction of the chain is indicated on the chainsaw motor just above the clutch drum – on some makes.**

Re assemble in the reverse order tightening the chain till you can ½ lift it out of the bar. Once the chain is right finish tightening the nuts retaining the cover and bar.

### **Remember – new chains stretch after initial use.**

Should the machine be dropped and then tend to cut spirals check that the side plates are still PARALLEL AND SQUARE BY SIGHTING ACROSS THE TOP EDGES. This may be corrected by judicious use of a mallet and if necessary loosening the screws at the end of the shaft housing.

Should you experience bearing trouble a bearing press is recommended to replace the bearings.

Remove the cir clip and push the shaft out from the side opposite the cutters.

Remove the little dowel next to the spline for the ring sprocket. The shaft may then be pressed out from the bearing and splines. The splines are a press fit with a key.



# CKC Civil Construction Equipment Pty Ltd

Ph/Fax – (07) 3881-2862 --- Mob – 0427-006-765

eMail – [info@ckcequipment.com.au](mailto:info@ckcequipment.com.au)

Web – [www.ckcequipment.com.au](http://www.ckcequipment.com.au)

PO Box 41

Strathpine, QLD, 4500

8

## Water pumps

For those using diamond cutters on Ductile iron the fuse is 15amp. For more information check the paperwork supplied with the pump. The filter needs to be checked so as not to starve the cutters of their cooling water. Regularly inspect the diamond coating. If you stop using the cutters before the drums are damaged they may be recoated at less than the cost of full replacement.

## **Lubrication**

Use Spray and cook or WD 40 as anti-stick on surfaces in contact with pipe and between pipe and truck brackets.

Use Hydraulic oil or Shell Cassida Fluid HF which is a food industry hydraulic oil for the bar lubrication. The reason why we say Hydraulic oil is that that it has the least additives of readily available oils.

For any further information please contact us using the below details.

Tim

Mob – 0419 737 041

Ph/Fax - (07) 3881 2862

email – [office@ckcequipment.com.au](mailto:office@ckcequipment.com.au)

Should you need other tools developed, let us know the problem and we will have a go at it.

Thank you for buying your CKC Pipe Cut and Bevel Tool.

The Team at CKC Civil Construction Equipment Pty Ltd.

The diamond plater was an industrial chemist by profession. He told us of a product which is a base for shampoo which on testing one of our customers felt helped with the cutting of the ductile iron. About two teaspoons to 20 lit of water was what he indicted for a starting point. We have no located it at a commercial price should you wish to try it. All new customers will get a bottle with their machine.