

Rapidtool®

A U S T R A L I A



User's Guide

RAPIDTOOL RT-40A/RT-60A
Rebar Tying Machine

WARNING: READ ALL SAFETY WARNINGS, INSTRUCTIONS, ILLUSTRATIONS AND SPECIFICATIONS PROVIDED WITH THIS POWER TOOL.

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.

FOR INDUSTRIAL USE ONLY.

Contents

1. Specifications & Technical Information.....	2	5. Maintenance.....	9
2. Safety.....	4	6. Storage.....	9
3. Battery and Charger Operation.....	6	7. Troubleshooting Guide.....	10
4. Machine Operation.....	7		

1. Specifications and Technical Information

Machine Specification

Model	RT-40A	RT-60A
Rated voltage	18V	18V
Weight	2.6kg	2.8kg
Size (LxWxH)	297x109x300mm	312x109x310mm
Wraps per tie	2 or 3 (adjustable)	3 or 4 (adjustable)
Tie diameter range	12-40mm	30-60mm
Ties per charge	+5000 (2 wraps), +4,500 (3 wraps)	+4,500 (3 wraps), +4000 (4 wraps)

Machine Specification

Model	TWG-50A (50 coils per carton)	
Diameter	0.8mm	
Length	Approx. 100m	
Material	Galv.	
Ties per coil	RT-40A	RT-60A
	Approx. 160 (2 wraps)	Approx. 90 (3 wraps)
	Approx. 120 (3 wraps)	Approx. 75 (4 wraps)

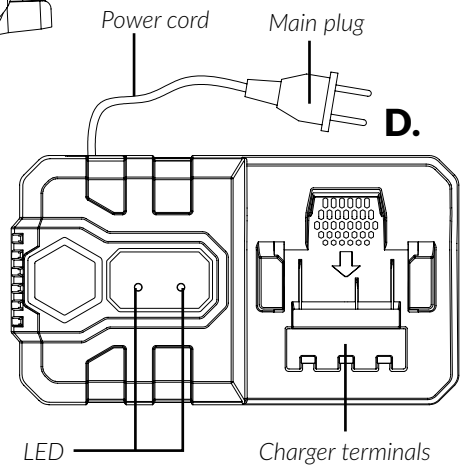
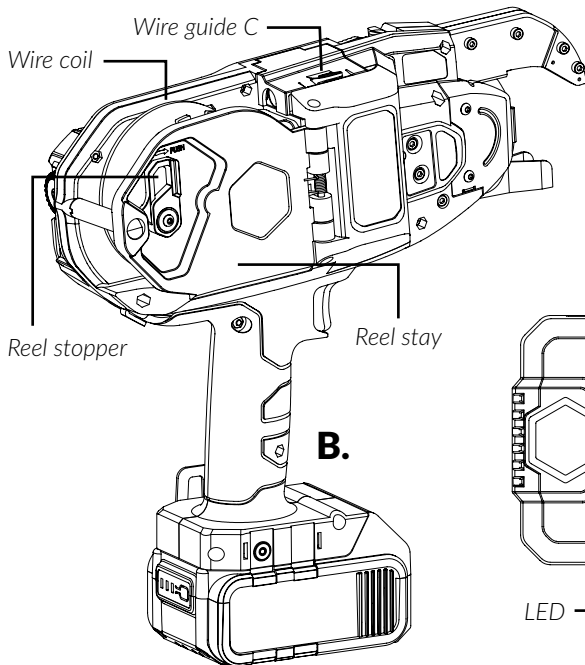
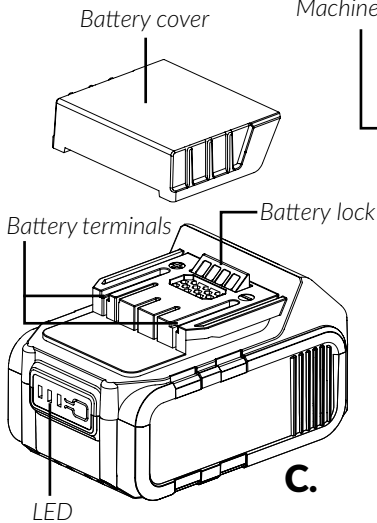
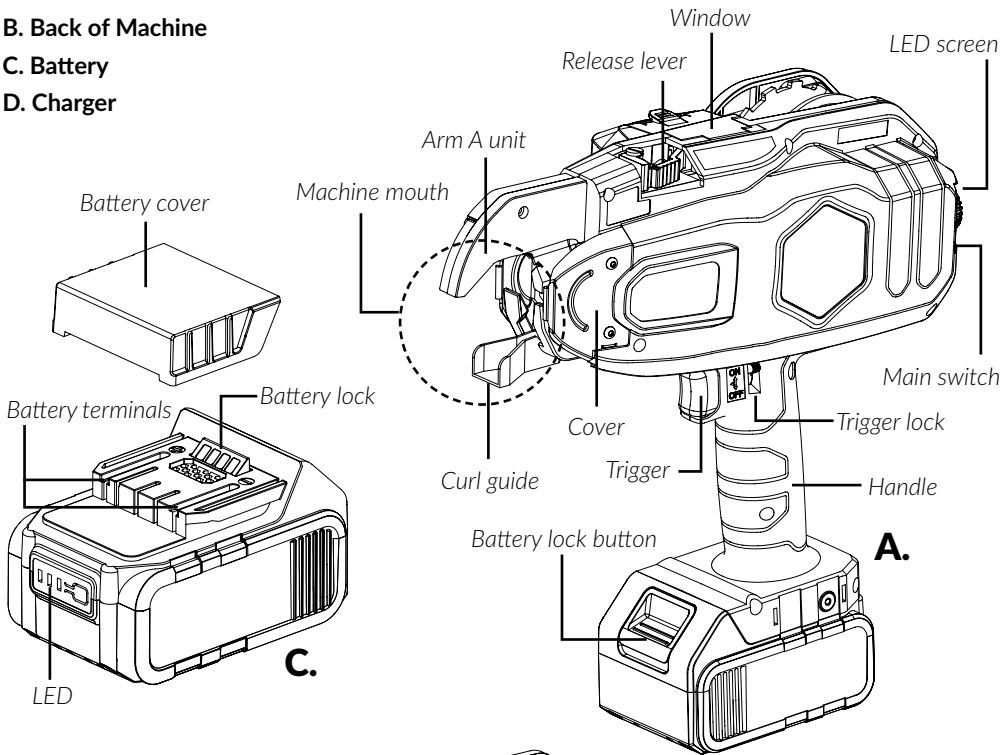
Charger Specification

Model	RT-CHA
Input	100-240V ~ 50/60Hz 1.0A
Output	DC21V --- 3.0A
Charge time	Approx. 90min
Charge only 18V Li-ION type rechargeable batteries supplied with machine.	

Battery Specification

Model	RT-BAA
Type	Li-ION 10 Cell
Rated voltage	18V
Rated amp-hour	4.0Ah







- A. Front of Machine
- B. Back of Machine
- C. Battery
- D. Charger



2. Safety

Symbols

Below represent the tool safety labels and symbols which may be used for the tool.
Make sure you understand their meaning before use.

	Read instruction manual.
	Wear eye and ear protection.
	Wear protective gloves.
	Do not use the tool in a wet or damp environment.
	Keep hands and body parts well clear of machine mouth.
	<p>For customers in non-EU countries:</p> <p>The proper disposal of this tool prevents the occurrence of any negative effects on people or the environment, follows the specific procedures for handling harmful substances and enables valuable raw materials to be recycled.</p> <p>We recommend that this tool is disposed of in a separate, environmentally friendly waste collection and not with normal household waste.</p> <p>When recycling or disposing of the tool (or parts of it) observe the regulations in force in the country of recycling or disposal. Various materials should be separated and recycled or disposed of separately where required (e.g. plastics, metals, batteries and hydraulic oil).</p>

Intended Use

The tool is intended for tying rebar.

This machine is a high performance, battery operated tool. Failure to follow safety instructions may result in serious injury.

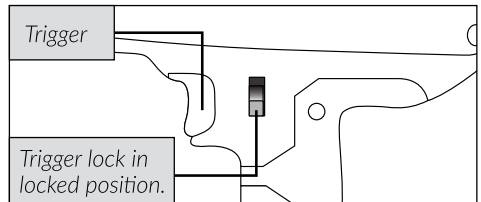
Machine and General Safety

1. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
2. Ensure trigger lock is on when not in use and before switching power on.
3. Authorized personal protective equipment must be worn when operating machine (minimum requirement - protective gloves).
4. Ensure body parts are well clear of moving parts (machine mouth, feeding gears, and wire coil). In particular keep hands well clear of machine mouth when power is on.
5. Use away from others, particularly children.
6. Children should be supervised to ensure that they do not play with the appliance
7. Never attempt to tie diameters outside of prescribed diameter range for the model (refer to table in Machine Specification section).
8. Never attempt to service machine (other than general maintenance procedures outlined in Maintenance section). Contact an authorised service centre if issues arise.
9. Only use Rapid Tool approved spare parts and accessories with machine
10. Ensure trigger lock is on and power is switched off when not in use.

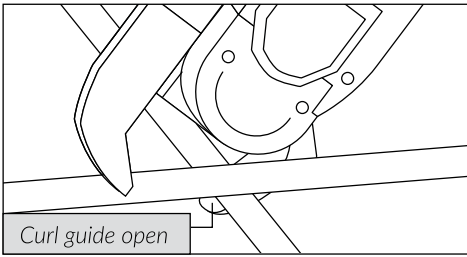
11. Ensure trigger lock is on, power is switched off and battery removed when changing or adjusting wire coil.
12. Ensure trigger lock is on and power switched off when charging battery.
13. Do not expose machine to wet or damp conditions.
14. Do not expose machine to hazardous materials (includes flammable items).
15. Only use machine in temperatures between 0-40°C.
16. Ensure all screws are properly tightened and inspect machine, battery and charger for defects prior to use. Do not use products if defect is found, contact an authorized service centre immediately.
17. Ensure machine is properly maintained in accordance with Maintenance Section.

Safety Features

The machine is equipped with the following safety features:



Trigger Lock: The machine is equipped with a trigger lock. Lock the trigger by pushing the trigger lock into the downward 'Off' position as shown below. Unlock the trigger by pushing the trigger lock upwards to the 'On' position.



Curl Guide: The machine will make a warning sound and will not tie if the trigger is pulled whilst the curl guide is open. To start tying, release the trigger and make sure the curl guide is closed.

Battery and Charger Safety

1. Do not charge battery using a generator.
2. Do not leave battery in charger once fully charged.
3. Only use supplied charger.
4. Only charge directly via charger.
5. If battery is fully charged but operating time is significantly reduced, battery is defective and must be replaced immediately.
6. Do not expose battery or charger to wet or damp conditions.
7. Do not cover or place anything on the charger during use.
8. Do not expose battery or charger to a heating source or open fire.
9. Do not expose battery or charger to hazardous materials (includes flammable items).
10. Charge battery in well ventilated places.
11. Only charge battery in temperatures between 0-40°C (charging time may be slower in lower temperatures).
12. Leave charger to rest between charges.
13. Keep charger and battery terminals clean (only use in dirt and dust free environments). Use battery cover on battery when not in use.

14. Ensure new batteries or batteries which haven't been used for some time are fully charged before use.
15. Handle charger cord carefully. Do not carry charger by cord or unplug charger by pulling cord.
16. Make sure battery terminals do not come into contact with each other.

Battery Disposal

Batteries contain substances that can be harmful to human health and the environment if they are not handled properly. Batteries are marked with the crossed trash bin. This symbolises that waste batteries must not be disposed with unsorted waste but must be collected separately.

It is important that you hand in your waste batteries to the collection points that are established. In this way, you help to ensure that the batteries are recycled in accordance with legislation and do not unnecessarily damage the environment. Your local waste authorities can inform you how to dispose and recycle this type of battery correctly.

3. Battery & Charger Operation

Always read, understand and comply with safety instructions (Section 2) before use.

1. To remove battery, press battery lock button before removing from machine battery slot.
2. Insert battery into charger slot and battery will automatically begin to charge (red light permanently on, green light flashing).
3. When fully charged (green light permanently on), remove battery from charger.
4. To install battery, insert battery into machine battery slot.

4. Machine Operation

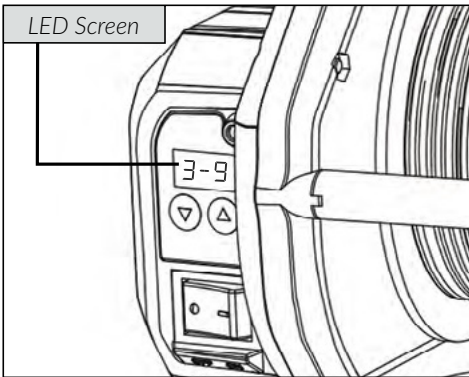
Always read, understand and comply with safety instructions (Section 2) before use.



Battery Saving Function

The machine is equipped with a battery saving function and will automatically shut down after 10 minutes of no use.

Tie Tension and Wrap Settings

The first digit on the LED screen indicates the number of tie wraps and the second digit indicates the tie tension as shown below.



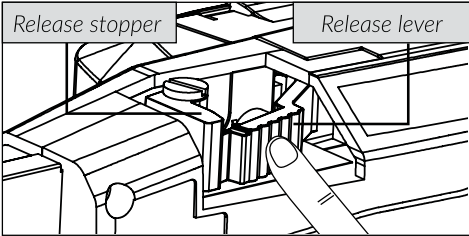
Press the  button to loosen and press the  button to tighten the tie tension (1 = min tension / 10 = max tension). By default RT-40A is set for 3 wraps and RT-60A is set for 4 wraps. To adjust the number of wraps down to 2 for RT-40A and 3 for RT-60A, switch the machine off, pull and hold the trigger while switching the machine on. If the machine is switched off, the number of wraps will be automatically set for default number of wraps again.

It is recommended to use the following guide for wrap and tension settings:

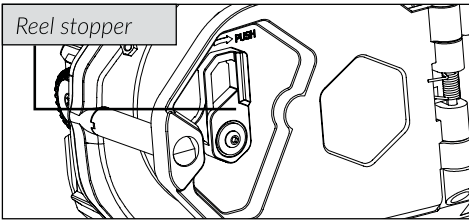
Model	2 Wraps	3 Wraps	4 Wraps
RT-40A	1-5	6-9	-
RT-60A	-	1-5	6-9

Loading Wire Coil

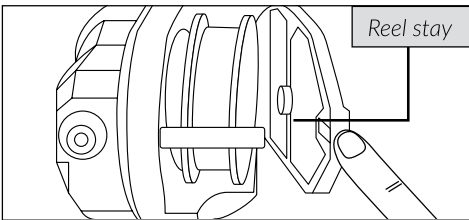
Warning - Ensure trigger lock is on, power is switched off, and battery removed.



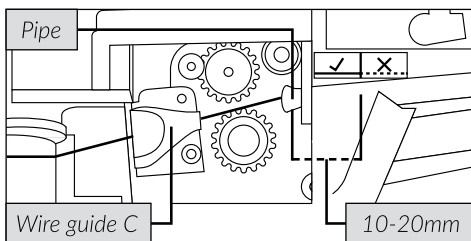
1. Push the release lever until it is caught by the release stopper.



2. Push the reel stopper to open the reel stay.

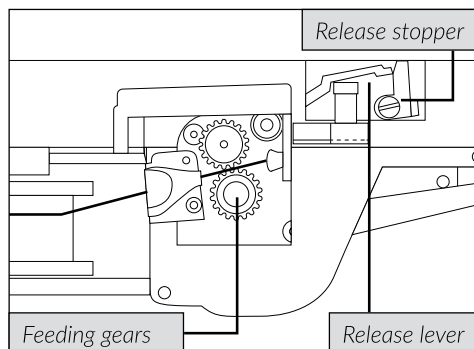


3. Insert the wire coil with the wire end upwards and forward. Carefully close the reel stay and secure the reel stopper.

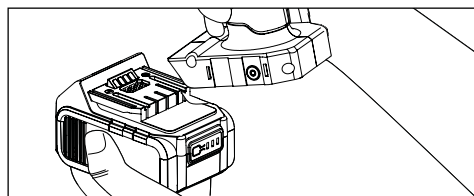


4. Insert the tip of the wire into wire guide C, through the gap of the feeding gears and all the way into the pipe (10-20mm).

If the window is dirty and it is difficult to determine the position of the wire guide C, clean the inside of the window with a soft cloth. Close the window again to prevent the ingress of foreign bodies in the machine.



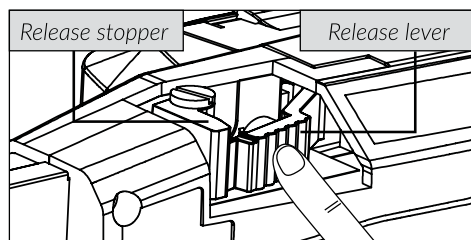
5. Push the release stopper and make sure that the release lever is back in original position, and that the feeding gears are clamping the wire.
6. Make sure that the wire is tight and firm. Prevent the wire from curling up behind the wire coil. This may cause a jam.



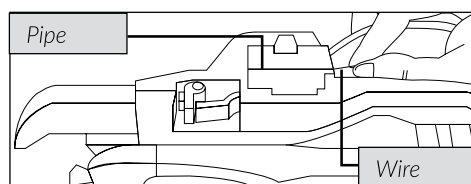
7. Insert battery into machine battery slot and set the main switch ON. Release the trigger lock before starting to tie.

Replacing Wire Coil

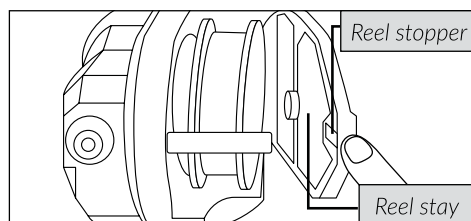
Warning - Ensure trigger lock is on, power is switched off, and battery removed.



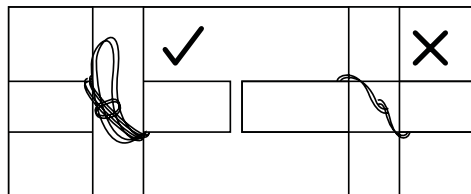
1. Push the release lever until it is caught by the release stopper.



2. Remove the wire coil.

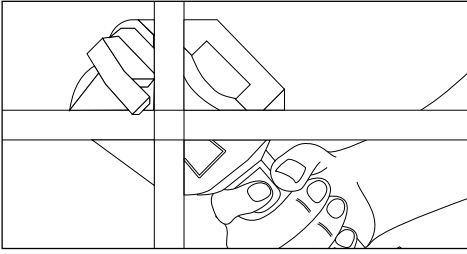


3. Push the reel stopper to release the reel stay and open it at the same time, remove the tie wire coil.
4. Load new wire coil (refer to previous instructions for loading wire coil).

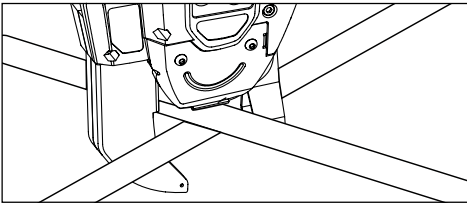


5. Perform a test tie to check if the tie tension is set correctly.

Correct Usage

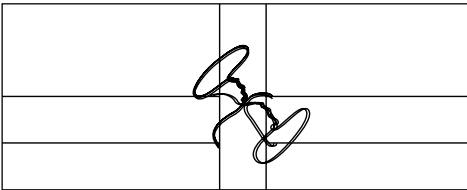


1. Place the arm A unit in a 45° angle over the rebar cross surface and push the mouth towards the rebar.



2. Place arm A perpendicularly on top of the rebar cross surface and with the mouth centred over the cross.

Warning - Do not move the machine while it is tying.



3. Cross-tying. Bend down the knot of the first tie, before you make the second tie.

5. Maintenance

Machine is equipped with advanced warning detection features. Please refer to Troubleshooting Guide on following page. If issue persists, contact an authorized service centre for diagnosis before further use.

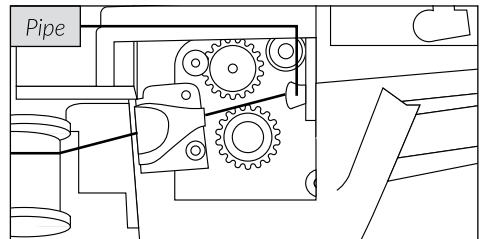
Never attempt to service machine other than general maintenance procedures below. Contact an authorized service centre if issues arise.

Cleaning

Clean and check the machine on a regular basis.

Remove wire coil and clean the feeding gear, brake gear, and machine mouth areas after use to avoid dust and metal residue getting into the machine and causing problems. This can be done with an air blow gun.

Use air blow gun to also clean wire feeding channel by firing air through wire feed pipe as shown below.



If issue found with wire feed or wire cutting mechanism, use air blow gun to clean wire feeding channel by firing air through wire feed channel as above.

Do not use oil based lubricants to clean product as this may void warranty.

6. Storage

Machine must be kept at approx. 20°C. Do not store in cold conditions, store under warm and dry conditions.

Keep out of reach of children.

7. Troubleshooting Guide

No.	Normal Operation	Problem	Warning Sound	Cause	What to Check	Solution
1	Power on - The Tip Axis is initialized and the wire-cutter operates automatically.	No operation takes place.	No sound emitted.	Battery completely empty.	Confirm the battery is charged.	Perform normal charge.
				Electrode plate has been oxidized.	Take out the battery and see if the electrode is brown.	Polish terminal part of the battery pack with clean cloth, etc.
			Continuous short beeps.	Battery is empty.	Confirm the battery is charged.	Perform normal charge.
		Twister cannot go back to the initial state.			One short beep.	CONTACT AUTHORIZED SERVICE CENTRE
2	Trigger ON - Wire sent out.	No wire is sent out.	Two short beeps.	Curl guide is open.	Open/close curl guide.	Fully close curl guide.
				Tie wire has run out.	Check if the tie wire has run out.	Set the new tie wire.
		Three short beeps repeated.	Wire caught inside reel.	Check if wire inside reel has been loosened and caught.	Remove fray on reel.	
			Feeding channel is blocked with foreign substance.	Check the feeding channel.	Remove wire and use air blow gun to clean wire feeding channel by firing air through wire feed pipe (refer Cleaning Section)	
3	Binding wire draws a circle.	Curl is distorted and steps out of curl guide.	No sound emitted.	A small bump on tie wire.	Check tie wire.	Cut off the part of the tie wire with the small bump.
				Wire, by hitting reinforcing bars, was repelled.	Check if wire hits reinforcing bars at binding.	Pay attention so that wire does not hit reinforcing bars at binding.

4	Wire is cut.	No wire cutting takes place.	No sound emitted.	Cutter section is blocked by foreign substance.	Confirm function of cutter section.	Remove wire and use air blow gun to clean wire feeding channel by firing air through wire feed pipe (refer Cleaning Section)	
5	Wire gets tangled.	Wire gets tangled.	No sound emitted.	Wire, by hitting reinforcing bars, was repelled.	Check if wire hits reinforcing bars at binding.	Pay attention so that wire does not hit reinforcing bars at binding.	
			Seven short beeps repeated.	Tie wire is tangled on the twister.	Check the twister for tangled wire.	Remove tangled wire from the twister.	
			Four short beeps repeated.	CONTACT AUTHORIZED SERVICE CENTRE			
			Binding power is weak.	Reinforcing bar is not of designated size.	Confirm size of reinforcing bars to be bound.	Use appropriate diameter scope.	
	Wire twisting takes place.	Tension setting is not at the right level.		Check the tension setting level.	Adjust the tension setting to a higher level.		
		Erroneous handling such as improper application of machine.		Confirm how to apply machine to reinforcing bars.	Adjust the tension setting to a higher level and ensure machine is held as per Correct Usage Section below.		
		Twisting-off tie head occurs.	Twisting-off tie head occurs.	Reinforcing bar is not of designated size.	Confirm size of reinforcing bars to be bound.	Use appropriate diameter scope.	
	Tension setting is not at the right level.			Check the tension setting level.	Adjust the tension setting to a lower level.		
	Erroneous handling such as improper application of machine.			Confirm how to apply machine to reinforcing bars.	Adjust the tension setting to a lower level and ensure machine is held as per Correct Usage Section below.		
	Low power remains in the battery.			Confirm the battery is fully charged.	Perform normal charge.		
	Works properly.	Works properly.	The tool is used at high temperature.	Check the temperature at the job site.	Leave the tool and the battery pack at a cooler temperature for some time, then continue operation.		



RAPIDTOOL

Taren Point, NSW 2229 AUSTRALIA

www.rapidtool.com.au