



RC21 Sheep Scissor

General Description:

The RC21 is a compact, light weight hand tool designed for the removal of sheep, lamb, bobby calf, and pig hocks. While very close in size and weight to the RC20, the RC21 is designed for heavier duty use.

The extra power and stronger construction are particularly beneficial to operators who process more mature animals and bobby calves.

Features:

Compact size and lightweight

The compact size and light weight (4.95Kg) of the RC21 makes this tool fast and easy to operate. It is well suited for modern production facilities with a high through put.

Two handed anti tie-down control system

Safety comes first, with a tamper resistant two handed anti tie-down control circuit.

Fully compliant with the most stringent safety standards world wide.

Double acting cylinder

The increased piston diameter takes advantage of the RC50 Intensifiers higher displacement to deliver more cutting power.

The lower cost intensifier helps to deploy the RC21 system rapidly, needing only to be mounted and connected to an air supply.

May be easily converted to run from a power pack or hydraulic ring main by simply changing out one seal.

No return spring

There is no return spring, eliminating expensive damage to cylinder components that occurs when a spring breaks.

The pneumatic return stroke provides 220N of force for the blade opening stroke, compared to 12N of force typically achieved with a spring.

Jamming of the blades from animal matter being trapped is eliminated.

Blade life is improved by being able to tension the pivot bolt more effectively, improving blade support.

Hardened stainless steel blades

Realcold blades are manufactured from knife grade 420 stainless steel, hardened and tempered to achieve maximum durability while remaining easy to sharpen and tough.

Years of development have been applied to finding the optimum cutting edge angles, and achieving just the right balance between hardness and toughness.

Our blades are CNC profile cut from multi-directionally rolled stainless steel plate, then CNC machined to shape and precision ground both sides to the final thickness.

The cutting edges are finished by hand to exacting tolerances, and polished for resistance to staining and bacterial growth.

By machining our blades from solid we eliminate casting porosity, while the grinding removes the outer layers, ensuring that each and every one of our blades is of the highest quality possible.

Improved blade shape

The main cutting edge of the blade is curved, so that the blade tips begin to engage and provide support to the opposing blade before the heavy load of cutting through the bone is applied.

This keeps the blades from deflecting under load, and also reduces the stress on the pivot bolt and wear plates.

Optional blades are also available with an identical profile to the RC20.



Technical Data

RC21-1412:

Weight	4.95Kg
Blade Opening	60mm
Blade Reach	88mm
Length	376mm
Height	190mm
Width	185mm
Operating Pressure	157Bar/2200Psi
Cylinder Displacement	59.6cm ³
Construction	Stainless Steel
Cutting Cycle	1.5 seconds
Triggering	Pneumatic

Model Options

**RC21-1412 Standard Blades
Pneumatic Return**

**RC21-1415 Small Blades
Pneumatic Return**

**RC21-1112 Standard Blades
Double Acting Hydraulic**

**RC21-1115 Small Blades
Double Acting Hydraulic**

European



Certified

Hardened stainless steel wear plates

Wear plates are machined from the same 420 stainless steel as the blades, and precision ground to thickness.

They are then hardened and tempered for durability.

The wear plates are harder than the blade, preventing galling of the bearing surfaces.

Proper blade support is maintained as our wear plates do not deform like copper or bronze.

Split clamp type handle

The pistol grip handle wraps around the hydraulic cylinder and is split for easy fitting or removal.

It clamps securely to the tool, removing the need for mounting holes to be drilled and tapped into the cylinder.

Placement can be adjusted to suit the operator or the process.

D-Handle mounting is incorporated into the handle base.

A solid casting is used to maximize strength.

Loop type hanger ring

The fixed loop hanger ring is mounted securely to the handle.

It can rotate freely through the suspension hook without any binding, allowing the tool to manoeuvre easily to meet oddly presented hocks.

Simple, innovative construction

The RC21 was designed from the outset to be powerful, easy to service and dependable.

The front port is integrated into the clevis tube, the rear port is bored centrally through the back of the cylinder, assuring correct alignment of the ports every time.

The robust construction assures a long trouble free service life.

Parts commonality

Many of the main wear items are shared with the larger RC22 and RC25 hand tools.

These include wear plates, pivot bolt and nut, yoke and yoke pin, and seal kit (RC22 only).

This provides a benefit with reduced inventory holdings of spare parts when several Realcold hand tools are used together.

Polished finish and smooth lines

All Realcold hand tools have a polished finish.

Unavoidable cavities are either plugged or shaped to prevent dirt from building up.

Lines are kept smooth making for an easy to clean, hygienic hand tool.

Manufactured in New Zealand

All Realcold hand tools and components are designed and manufactured in New Zealand to the highest standards.

Our range of tools are distributed world wide and are found in widespread use in places such as France, Germany, Spain, the United Kingdom, the United States, Australia, and Japan.

Custom built solutions are available on request.

Stock is held in Auckland, and Brisbane. Spare parts can normally be shipped to any location overnight.

Associated Equipment

**Endo EW05
Spring Balancer**



**RC50-3410
Air/Oil Intensifier**



**RC100-50
Power Pack**



Standard Blades



Small Blades



Argus Realcold Pty Ltd

P.O. Box 264

Unit 1, 55 Musgrave Road

Coopers Plains

Queensland 4108

Australia

Facsimile 07-3340 1151

Phone 07-3340 1150

<mailto:argusorders@realcold.com>

Northern Region:

Glen Bramley

Mobile 0409 647 796

<mailto:gbramley@realcold.com>

Southern Region:

Colin Castricum

Mobile 0417 070 795

<mailto:ccastricum@realcold.com>