Rata™

SUBSOIL AERATION

PRODUCT CATALOGUE

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WARRANTY:

All Rata Cultivation equipment has a 12 month warranty that covers workmanship & faulty materials. The end user must register the product at **www.rataequipment.com** for the warranty to take effect.

DISCLAIMER:

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PURPOSE OF SUBSOIL AERATION

Soil compaction restricts root growth and negatively impacts the flow of nutrients & water to the roots of your pasture or crop, leading onto lower dry matter in pasture & lower yields in crops. Subsoiling works by lifting the soil & fracturing the structure to create a looser & more 'aerated' soil that allows nutrients to flow & roots to grow.

HOW IT WORKS

BEFORE

Compacted soil layers prevent downward root growth, this causes roots to grow horizontally which causes matting in the upper soil layers . This means roots are prevented from reaching nutrients and moisture in subsoil layers.

DURING

Subsoiler legs run through all compacted soil layers, this lifts and fractures the soil structure without surface disturbance to existing pasture cover. This increases soil porosity and permeability, improving overall soil conditions.

AFTER

Now the compacted subsoil layers have been removed and the soil structure is more porous and permeable with higher oxygen levels, roots are able to grow downward into the deeper soil layers, taking up nutrients and utilising the greater oxygen levels. This results in higher pasture growth and crop yields.

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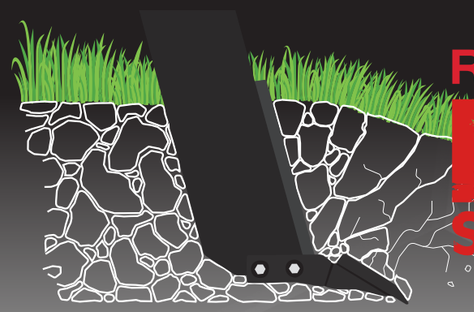


Rata FIELD WAVE SUBSOIL AERATOR

The most popular model in the Subsoil Aerator range. The innovative double "V" frame design allows the user to pull more legs with less horse power. Its massive robust construction including 14mm shear bolt leg protection & a heavy duty linkage is designed for the toughest working conditions & high horse power tractors. The 16mm legs have shin guards attached, giving clean results while cutting through the soil.

Features:

- ✓ V Frame design
- ✓ 450mm Max working depth
- ✓ 500mm Leg spacings
- ✓ Ni-hard leg protection
- ✓ 14mm Shear bolts
- ✓ 16mm Hard wearing legs
- ✓ 16mm Linkage plates
- ✓ Turnbuckle depth control
- ✓ Greasable Roller arm

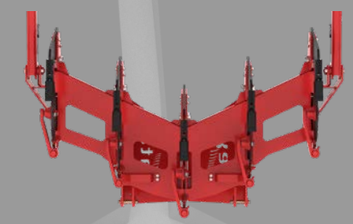
SPECIFICATIONS

FIELD WAVE SUBSOIL AERATOR			
CODE	DESCRIPTION	WORKING WIDTH	RECOMMENDED MINIMUM HP
304P5RPP	5 Leg Field Wave Subsoil Aerator	2.5m	100hp
304P7RPP	7 Leg Field Wave Subsoil Aerator	3.5m	140hp
304P9RPP	9 Leg Field Wave Subsoil Aerator	4.5m	180hp

OPTIONS

FIELD WAVE SUBSOIL AERATOR		
CODE	DESCRIPTION	PURPOSE
WPF	Winged Foot in lieu of pasture point	Extra ground lift

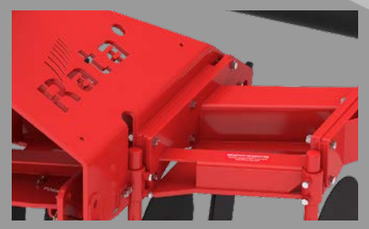
KEY FEATURES



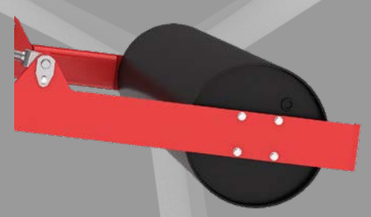
V Formation
Field Wave legs are in a V formation, making it easier to pull and doing a cleaner job.

Modular Leg
Innovative modular leg, foot & point assembly provides maximum serviceability and customisability

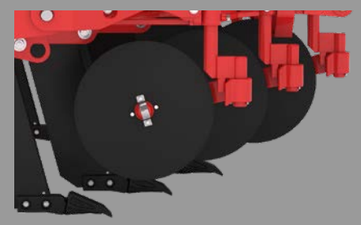
Working Depth Adjustment
Easily adjust working depth via the rear roller turnbuckle adjusters and tractor 3 point linkage.



Heavy Duty Frame
Heavy duty folded plate frame is fully welded and gusseted for maximum strength.



Roller Bearings
Rear roller is securely mounted into a sealed self aligning bearing to ensure smooth operation and minimal wear.



Pasture Pre-Cutter Skieth
Skieths are mounted as standard to slice the pasture prior to the leg, eliminating trash & doing a cleaner job.

14.3mm of Shear Bolt Protection
A 9/16 shear bolt protects each leg from damage in the case of underground obstacles

16mm Steel Plate
Constructed around a folded 16mm thick plate steel headstock, the Field Wave frame is extremely strong.

Long Life Points
20mm of bucket cutting edge welded to the point provides much more wear life.

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Rata FIELD WAVE SUBSOIL AERATOR

AUTO RESET

The Auto Reset Field Wave design provides all Farmers & Contractors the ability to aerate almost any type of soil. Auto reset systems are particularly helpful when working ground with a high number of obstructions. The leg simply engages, lifts to clear the obstruction & resets with the help of the leaf springs making the job seamless & easy. As with the standard Field Wave Subsoil Aerator this model enjoys the same "V frame" design making it easy to pull & reducing fuel burn.

Fully modular construction allows for easy adaptability to different ground conditions.

- ✓ V Frame design
- ✓ 450mm Max working depth
- ✓ 500mm Leg spacings
- ✓ Ni-hard leg protection
- ✓ Auto reset leaf springs
- ✓ 16mm Hard wearing legs
- ✓ 16mm Linkage plates
- ✓ Turnbuckle depth control
- ✓ Fully modular

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AUTO RESET FIELD WAVE SUBSOIL AERATOR			
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304P5RPP	5 Leg Auto Reset Leg Field Wave Subsoil Aerator	2.5m	100hp
304P7RPP	7 Leg Auto Reset Leg Field Wave Subsoil Aerator	3.5m	140hp
304P9RPP	9 Leg Auto Reset Leg Field Wave Subsoil Aerator	4.5m	180hp

OPTIONS

AUTO RESET FIELD WAVE SUBSOIL AERATOR		
CODE	DESCRIPTION	PURPOSE
440134	150mm wide Winged Foot	Extra ground lift

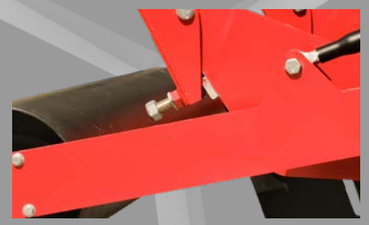
KEY FEATURES

V Formation
Field Wave legs are in a V formation, making it easier to pull and doing a cleaner job.

Modular Leg
Innovative modular leg, foot & point assembly provides maximum flexibility of parts.

Working Depth Adjustment
Easily adjust working depth via the rear roller turnbuckle adjusters and tractor 3 point linkage.

Heavy Duty Frame
Heavy duty pressed plate frame is fully welded and gusseted for maximum strength.



Easy Tension Adjustment
Leaf spring tension is easily adjusted via the 'adjuster bolt' mounted on the leg.

Pasture Pre-Cutter Skieth
Skieths are mounted to slice the pasture prior to the leg, eliminating trash & doing a cleaner job.

Leaf Spring Auto Reset
The heavy leaf springs used on the Auto Reset Field Wave are a simple and very effective solution, allowing for a hugely increased work rate.

16mm Folded Plate Construction
Constructed from super heavy gauge pressed plate, the Field Wave frame is extremely strong.

Long Life Points
20mm of bucket cutting edge welded to the point provides much more wear life.

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SINGLE LEG RIPPER

Pictured with optional skieth and pipe laying attachment

The Single Leg Ripper has a number of uses, making this tool a well purchased asset. Uses include subsoil drainage, tree planting and laying pipe. With 20mm high tensile shear bolt leg protection and a super strong frame his ripper will last the test of time.

"Ideal for ripping those deep pans and laying alkathene pipe"

Features:

- ✓ 500mm Max working depth
- ✓ 20mm Blade with wear protection
- ✓ 20mm Shear bolt
- ✓ Ni-hard leg protection
- ✓ Double beam construction
- ✓ Replaceable point
- ✓ Frame stands for easy storage

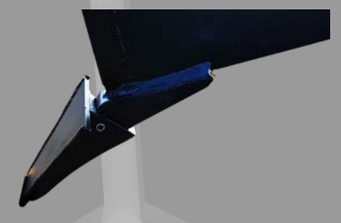
SPECIFICATIONS

SINGLE LEG RIPPER	
CODE	DESCRIPTION
SLRP	Single leg ripper with 20mm blade

OPTIONS

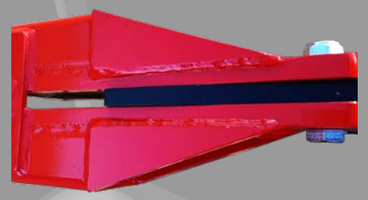
SINGLE LEG RIPPER	
CODE	DESCRIPTION
PA50	Pipe laying attachment for up to 70mm OD pipe
PA50A	Pipe laying attachment for up to 70mm OD pipe with removeable front
OPSK	Optional Skieth

KEY FEATURES



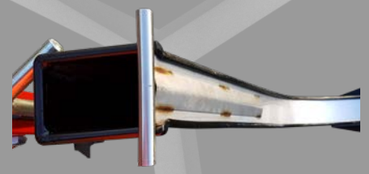
Wide Ripper Foot
Wide ripper foot helps to break the ground, this is held in with a roll pin for ease of replacement.

Shear Bolt Protection
20mm blade is secured to the main frame, including a 20mm shearbolt for maximum protection.



Heavy Duty Double Beam Frame
Double RHS beam frame with extensive gusseting & plating provides maximum strength.

Heavy Linkages
Heavy linkage plates ensure the ripper pulls through the harshest soils and conditions.



Optional Pipe layer
Optional pipelayers help to lay pipe up to 70mm OD. Pictured is the PA50A with removable front to make laying joiners easy.

Optional Pre Cutting Skieth
Optional skieth for pasture pre cutting enables clean cuts through grassland and eliminates trash build up.

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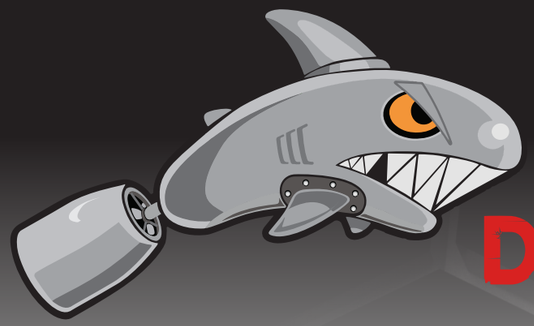

Rata TORPEDO DRAINER

Torpedo Drainer Mole Ploughs provide easy access when starting the mole drain. The blade extends to near horizontal in order to get under single wire & electric fences to start the channel in an open drain or water course. Torpedo Drainer Mole Ploughs are particularly useful where greater access is required & where the mole can't be lifted out of the ground by the tractors 3 point linkage. Torpedo Drainer Mole Ploughs are available with a double headstock to pull 2 moles at a time.

Features:

- ✓ 450mm Max working depth
- ✓ 75mm Ni-hard revolving plug
- ✓ Quickleg ™ blade design
- ✓ Ni-hard leg protection
- ✓ Winged Ni-hard point
- ✓ Shearbolt leg protection
- ✓ Full floating headstock
- ✓ Land skids for contour following

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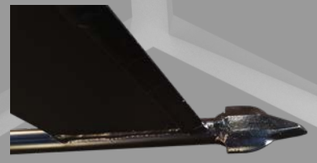
SPECIFICATIONS

TORPEDO DRAINER MOLE PLOUGH	
CODE	DESCRIPTION
HYAS	Hydraulic Torpedo Drainer Mole Plough c/w with blade & plug
DMPH-HYAS	Double Torpedo Drainer Mole Plough c/w blade & plug (1.8m centres)

QUICKLEG™ BLADE DESIGN

The Quickleg blade design is a standard feature on Rata Mole Ploughs. Quickleg blades remove the need for pasture pre cutting skieths due to its unique self cleaning design. This enables you to mole plough faster and even turn corners! (something not possible with pre cutting devices fitted).

KEY FEATURES



Winged Ni-hard Point
Winged Ni-hard point provides maximum abrasive resistance. Wings help to dig into the ground.

75mm Revolving Plug
75mm Ni-hard plug revolves & floats to ensure even wearing and allow contour following.

Easy Grease Access
All grease points are located in easy to access areas, making maintenance fast & easy.

Twin RHS Frame
Heavy duty twin RHS box section frame design with extensive gusseting & bracing for strength.

Land Skids
Land skids for contour following allow easy & smooth operation across all ground conditions.

Adjustable Blade Action
Hydraulic blade action is adjustable via a screw thread adjuster to alter the degree of blade angle and working depth.

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