



## MULCHERS

This is a rotary cutter with a unique, fully enclosed mulching chamber with special blades that cut and recut the grass or prunings and then recycle it into the ground, creating a moisture retaining mulch which improves the fertility of the ground.



# Range of Mulchers

Model	Width of Cut (m)	Blades	Gearbox	Slip Clutch	Total Mass (kg)	Dimensions Length/ Width (mm)		Cutting Height Min/Max (mm)
<b>Falcon Side Discharge Mulcher</b>								
F40/120SD	1.2	6	F40	STD	514	1500	1480	10/130
F80/150SD	1.5	6	F80	STD	612	1780	1905	10/130
F80/180SD	1.8	6	F80	STD	680	2020	2150	10/130
<b>Falcon Fieldmulcher™</b>								
F50/150FM	1.5	4	F50	STD	421	1700	1750	0/100
F50/180FM	1.8	4	F50	STD	580	2030	2070	0/100
F80/200FM	2.0	4	F80	STD	720	2250	2350	0/130

## The Importance and Benefits of Mulching

The ground retains moisture better and soil erosion is minimised as the blanket of mulch drastically reduces the effects of wind erosion and blocks harsh sun rays.

- It stunts the weed growth.
- The soil temperature stabilises, allowing plants to escape the damage caused by severe temperature changes.
- The soil fertility improves as the combination of rain and time gradually breaks the mulch down, releasing rich minerals into the soil to feed plant roots.

### *Organic matter is important because:*

- It provides food and energy for soil organisms essential for fertile soil.
- It holds and exchanges nutrient elements for plants to draw on.
- As soil organisms break down organic matter into simple organic compounds, plant nutrients are released, which are used by the growing plants.
- It has the ability to resist undesirable pH changes the greater the humus present, the greater the resistance capacity.
- As it decomposes, mild acids are released in mild soil. By chemical action these acids make minerals more available to plants.
- The higher the organic matter content, the more stable the soil structure, thus minimizing damage from cultivation.
- Crusting is reduced, as is the stickiness of clay soils making soils easier to work.
- It is capable of retaining large quantities of water so is vital in sandy soils.
- In clay soils, it opens up the soil to improve water entry, aeration and drainage.

## FALCON MULCHERS



F80/150SD Mulcher



Side Discharge Chute

The Falcon Side Discharge Mulcher comes with a chute cover so that the branches slide gently over the cover instead of hitting the chute directly, thereby eliminating branch damage. The cover can be removed if preferred. There is also a chute offset feature which allows the chute to be set back by 100mm making the machine narrower and therefore allowing it to cut in narrow orchards or vineyard rows without causing damage to the crops. The chute is adjustable so that it can be set to discharge material at the required distance.



F50/180 Fieldmulcher™

to over sow Rye grass for winter feed when the Kikuyu grass growth has slowed down.

### Falcon Side Discharge Mulcher

The Falcon Side Discharge Mulcher is the ideal implement for turning those unwanted prunings into an organic fertilizer in the form of mulch. The machine mulches the material and throws it out the side, back under the trees, leaving a clean row between the trees, and a mulch blanket under the trees. The mulching process minimizes the need for artificial fertilizers and sprays. The Falcon Side Discharge Mulcher is not limited to being only used in orchards, it can also be used for general slashing purposes.

### Falcon Fieldmulcher™

The key to better re-growth is a programme of regular pasture topping with a Falcon Fieldmulcher™. This specialised rotary cutter cuts the grass, mulches and spreads it evenly over the cutting width, encouraging quick re-growth. The Fieldmulcher™ is also used

## FALCON CONSTRUCTION

Falcon Mulchers are manufactured from top quality steel plate suitably reinforced with angle and flat iron which is stitch welded to reduce distortions and stress fractures. We make use of 45 degree gusseted bends to ensure maximum strength.

The side panels can be raised or lowered to adjust the cutting height and so too the required finish. They are secured by bolts, the heads of which are countersunk into hexagonal recesses so that height adjustments require the use of only one spanner. The side panels run on steel skid runners.

The topmast, which connects to the tractor top-link, is mounted on bushes and connected to the rear of the machine by HT chains. This flexible linkage allows the rotary cutter to follow the ground contours.



Safety Flaps - Fieldmulcher™



Safety Flaps - Side Discharge Mulcher



5 Stage Cleaning Process



Spraypainting

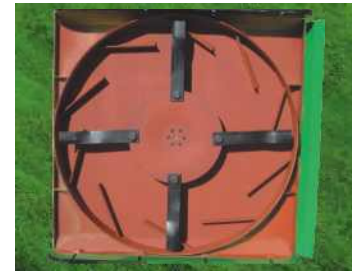
The lower linkage points are of the clevis type, with loose pins, on the machines of 1.5m and wider. The smaller machines have fixed pin type lower hitch points. Front steel skirts and steel or rubber flaps at the rear of the machine provide protection from flying stones and debris.

### Metal Treatment and Painting

All Falcon machine parts are subjected to a five-tank acid bath cleaning and phosphate treatment process. The primer paint coat is then applied by complete immersion in a paint tank which allows the paint to reach all closed sections and recesses and behind all gussets. All open seams are then sealed with a special sealant to protect the equipment from moisture, before the final enamel colour coat is applied. All fasteners, chains, shackles and pins are electroplated to guard against corrosion.

### The Falcon Cutting Assembly

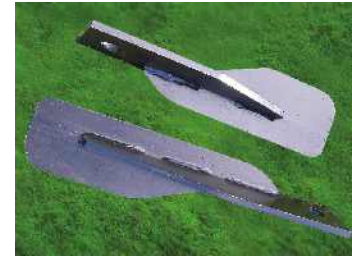
The Falcon Fieldmulcher™ is fitted with low impact blade discs with four blades swinging on special stepped blade bolts. This system allows the blade to swing 360 degrees if it encounters an obstruction. Alternatively, where specified, the discs are fitted on hardened bushes secured by special blade bolts.



Cutting Assembly Fieldmulcher™



Cutting Assembly Side Discharge Mulcher



Side Discharge Mulcher Paddle Blades



Falcon Gearbox

The Falcon Side Discharge Mulcher has six heavy duty blades (12mm) mounted on a disc. Three are cutting blades and three are mulching blades. They can withstand heavy loads and prunings of up to 70mm in diameter. The mulching blades can be replaced by the unique paddle blade which consists of two pieces of high wear resistant steel joined together in the shape of a rowing paddle, ie: a thinner arm attached to a rectangular flat piece of steel, and so owing to the bigger surface area, strength and blade speed, it pushes the moist mulch out the chute. With a paddle blade fitted, this implement can successfully cut, mulch and discharge crops such as lucerne, grass and millet which can be extremely moist. By changing the blades, depending on the application, the Falcon Side Discharge Mulcher can now be used all year round.

### Drive Shafts

All machines are supplied with appropriate, fully guarded PTO shafts. Torque limiting slip clutches are supplied where specified. Optional Over-run or Free-wheel clutches can be supplied if required.

### The Falcon Gearbox

One of the secrets of the success of the Falcon rotary cutters is that the F50 and F80 series are fitted with the locally manufactured Falcon heavy duty and extra heavy duty gearboxes.

Entirely constructed by Falcon and designed to withstand the extraordinary working conditions encountered in Africa, the Falcon gearbox has proved to have a long, trouble-free life in any operation and has been designed to absorb the higher power being produced by the new generation tractors coming into the market. The gearbox is guaranteed for two years against faulty manufacture.

All Falcon equipment is locally manufactured in Howick and is designed to be simple, safe and serviceable offering excellent value for money. It is robust with the simplicity of design and the low number of wearing parts ensuring that the maintenance costs are minimal. Innovation is an ongoing pursuit at Falcon and is based on our assessment of the customers' changing requirements. Excellent customer service is also part of the Falcon promise. Our equipment is built to last and is capable of coping with tough South African conditions.

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## Product Groups & Products

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### Slashers

Light Duty  
Medium Duty  
Heavy Duty  
Extra Heavy Duty

### Haymaking Equipment

Haymakers®  
Bale Handling Equipment  
Falcon Unloaders™

### Spreaders

Rotorspreaders  
Limespreaders

### Ground Engaging Equipment

Rotavators (& Bedformers)  
Ploughs

### Mowers

Blowermowers™  
Grassmulchers™  
Rollermowers  
Rotagangs™

### Mulchers

Fieldmulchers™  
Side Discharge Mulchers

### Imported Product Range

*Falcon Agricultural Equipment distributes the following range of imported products:*

#### Slashers

Woods Batwing BW1800 4.5m  
Woods Batwing BW3240 6m

#### Mowers

Votex Flail Mower  
Votex Reach Mower

#### Spreaders

Amazone

#### Shredders

Votex Shredder



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