

SQUIRREL



358 SD-D
Model

A self-propelled all terrain elevating platform
Raising Safety and Productivity

____ 5.5m Reach



____ 3.5m Platform height



358 SD-D

Manufacturers and designers of horticultural & viticultural equipment

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- * **SQUIRREL** Elevating platforms
- * **NetWizz** Bird netting applicator
- * **SADIE** Orchard & vineyard sweepers
- * **OliNet** harvesting aid for olives etc
- * **BIN RUNNER** Bin Trailers

SQUIRREL'S unique foot control and smooth hydraulic system increases productivity up to 30% ahead of all other machines.

Standard features on all SQUIRRELS include.

- **Free Wheeling Hubs and Towing Draw-bar**
- **Fail Safe Hydraulic brakes incorporating Auto Hill Descent Wet Brakes**
- **Wide Caster Wheels**
- **Electric Hydraulic Three Speed**
- **Planetary Drive 8:1 Wheel Hubs**
- **Best back up and Spare parts**
- **Large 40 lt Steel Fuel Tank**
- **Triple Hydraulic Pump**
- **Safety Throughout**
- **Side Swing Cage**
- **Electric Throttle**
- **Enclosed Cage**

Three speed is a standard feature which operates independently from the variable engine rpm, enabling the operator to select a wide range of speeds for safe and faster operation. There is a toggle stick in the cage to change speeds, which can be done while driving.

A safety height sensor switches gear 3 off and reverts to gear 2 when the cage is raised above 1/3rd height.

Gear 1 slow speed steady work at heights.

Gear 2 steady to fast work speed.

Gear 3 travelling speed.



CAGE is enclosed on three sides, safely protecting the operator from branches. Also sited in the cage is (L-R) electric throttle, E-Stop, start, bin forks and electric hydraulic three speed. All switches are rated IP67 and sealed in an aluminium box.

Side Swing Cage

The cage rotates hydraulically 110° left through to right by using the left foot pedal. Cage swing is constant at all heights making the SQUIRREL ideal for a range of applications. This cage swing allows the operator to reach a greater area instantly without moving the base of the machine.



Left Foot Pedal

Toe down raises the cage.
Heel down lowers the cage.
Twist foot left and cage swings left.
Twist foot right and cage swings right.

Right Foot Pedal

Toe down drives forward.
Heel down drives in reverse.
Twist foot right to turn right.
Twist foot left to turn left.

All controls: lift, side swing, drive left & right can be easily operated at the same time giving three dimensional movement, this dramatically increases operator productivity.

Safe In & Out of Cage

The SQUIRRELs Cage: is safe and easy to enter and exit - no bending and twisting under hand rails. It is automatically closed and latched with 2 separate latches. As the rear seat belt is attached, getting in and out is safe and fast. To un-latch it requires 2 fingers to lift two latches, then push back. The latch handles are recessed in the back inside corner.

The Squirrel gate is fully OHS safety compliant providing the safest way to access the cage, no bending and twisting your back as in other EWPs.

Large wide seat belt

To prevent the operator hitting the sides of the cage we have a 150mm wide belt which holds the operator above the foot controls so they can move the top of their body around without bumping the foot controls

Soft Drive

Special valving is fitted which gives a soft start and stop and allows the operator to drive quickly & safely. Foot controls are directly mounted to hydraulic valves, allowing the operator to gradually phase giving proportional movements. The new design of hydraulic system & foot valves are smoother and lighter to operate without sticking or oil leaks.



SQUIRREL *All models*

Increases productivity up to 30% ahead of all other machines.

For this we must make the Squirrel: **Very safe, Smooth riding, Simple controls & Three speeds.**

The operator must feel safe with simple smooth controls and will keep the Squirrel moving so that the fruit is within easy reach, the same as if they were picking on the ground, always moving as they operate. As they trust the Squirrel they will operate in gear 2 instead of gear 1 and using gear 3 for travelling to the bin. The operator can adjust the engine RPM to get their ideal speed.

The operator can maintain a higher speed only if they have a smooth ride. Our unique "Soft Drive" which reduces any sudden stopping and proportional hydraulic control valves so that the operator can phase the controls.



The bonnets are made from heavy steel and will not break with fallen or overhanging branches. For security, the bonnets are lockable and swing up with stainless steel gas strut to give ample, easy access to the engine compartment for servicing. The frame is also made from very heavy RHS.

A Vanguard 16 HP petrol engine is standard. The exhaust is extended and piped low down to the rear of the Squirrel away from workers. Engine auto stops when oil level is low.

E-Stop, Start switch & reset circuit breaker are accessible without lifting the bonnet. A sealed enclosure protects all the electrical components.



The 358 models are short in design (about 0.4m shorter than other EWP's) and makes it a lot more manoeuvrable in the rows. The SQUIRREL engine is fitted with a mechanical fuel pump, fuel filter and has a 40 litre steel fuel tank to allow for up to 3 days use.



Cage bottom guard

Foot Controls are protected by a bottom guard, to clean just remove 2 clips and this will swing down cleaning itself. This is standard on all cages.

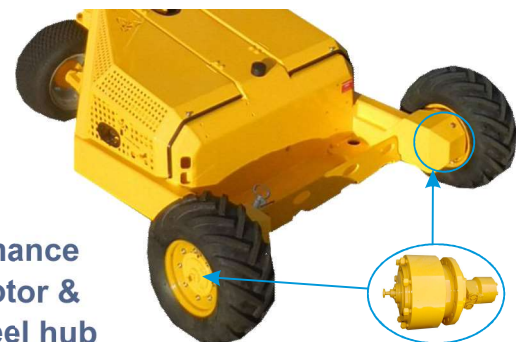


Easy Adjust Foot Stops

New foot stops are larger and can now be adjusted without tools, rotate up 70° and slide to next hole then rotate down 70°. They cannot be removed from the pedal unless a nyloc nut is undone. New foot pedals are bigger with more gap around sides to allow fruit to fall through.

Best back up and spare parts

Crendon Machinery is a small family company priding itself on the very best back up and spare parts. The team can provide you with the best service in person or over the phone.



High performance Hydraulic Motor & Planetary wheel hub

To get the best high performance drive we need high performance hydraulic motors rotating at a high RPM, by using a 8:1 planetary reduction gear box. We keep the hydraulic motor operating at it's most efficient range, giving a high torque and long life. Our own design of very heavy duty 8:1 planetary reduction gearbox with an integrated powerful industrial hydraulic motor and incorporated fail safe multi-disc wet brakes eliminate wheel creep and auto brakes smoothly when driving down a slope. No jerky movements and brake springs can be changed to alter stopping speeds.

Hubs are standard with quick disengage freewheeling. This is the most powerful efficient drive giving maximum torque to the drive wheels, up to twice of other makes of EWP's.

SQUIRREL 358 SD-D

5.5m Reach 3.5m Platform height

- **Genuine foot controls SD (Soft Drive)**
- **Fully enclosed spacious engine compartment**
- **Powerful double hydraulic pump system**
- **Self lubricating replaceable bushes**
- **Towing & free wheeling standard**
- **Best back up and spare parts**
- **Electric hydraulic three speed**
- **Large self closing cage gate**
- **Planetary 8:1 wheel drive hubs**
- **Hand control options**
- **Air Compressor 6 CFM**
- **Safety throughout**
- **Compact length**
- **Side swing cage**
- **Electric throttle**
- **Enclosed cage**
- **Low back**

Powerful Double Hydraulic Pump System

Hydraulics have the capacity to handle steep and adverse conditions. The system is protected by a very large fine 10 micron suction filter. Two hydraulic pumps are fitted - First pump for gear 1 second pump for gear 2 and both pumps for gear 3. Two hydraulic oil tanks in the frame keep the oil cool.

All hydraulic rams are fitted with safety lock-out valves preventing any creep or movement when not operating.

This new 358 SD Squirrel has been developed to incorporate all the latest features and experience gained from manufacturing over the past 50 years.

The 358 model is designed primarily for picking and pruning trellised orchards.

With the SQUIRREL's side swing cage (rotated left or right) the operator can comfortably pick as the SQUIRREL is driven straight down the row of a trellised orchard, even on steep terrain.



Low back and Compact length

The Squirrel 358 SD-D has a low back and low profile bonnets. Cage, bonnets and frame back have large rounded corners so overhanging branches easily deflect.

The 358 SD-D is short in design (about 0.5m shorter than other machines in the market), this makes it a lot more manoeuvrable in the rows.



SQUIRREL 358 SD-D OPTIONAL EXTRAS



Picking Bag - Standard

The Standard picking bag is fully padded with multiple filling stages and a drawstring to eliminate bruising.



Picking Bag - Deluxe

The Deluxe picking bag is double lined with padded inside with four filling stages, and offers added protection from limbs by a steel cover which eliminates all bruising.



Bird netting installing trays

Three trays bolted to the cage (left for plastic clips, front for all tools, right for long wire splices).



Air Compressor 6 CFM

A 6 cfm, 175 psi two stage heavy duty cast iron compressor with head unloading valve is included. This comes with a 5 lt capacity air tank.



Engine chain saw rack

Solid Nylon with slots to take chain saw and hedge trimmers.



Hydraulic tool outlets

Hydraulic tool outlets in cage with on/off & safety valve 20-45 l/pm 1,700 psi.



Squirrel beaver-tail / flat top trailer with 358 SD-

A range of trailers are available. For orchards we have a beaver-tail / flat top model. When transporting Squirrels or any other wheeled machine it is a beaver-tail with swing down ramps. These ramps are pinned vertically, the ramps can also swing right over to make a flat top trailer, with a tray size of 2.45m x 4.45m. Ramps are powered by gas struts & springs for easy positioning. Floor is 8mm expanded mesh all hot dip, lights are all LED. Wheels 15" Landcruiser, hubs, electric brakes & axle all rated to 5 tonne, trailer rated for 3.5 tonne. Different drawbars bolt on to suit your requirements. Comes with spare wheel, tool box, cage platform, steps & hand rails for safe Squirrel cage access. Head board can be unbolted.

Separate Squirrel trailer brochure available with information and detailed specifications.

Available through your local dealer

SQUIRREL 358 SD-D Specifications

	Squirrel 358 SD-D
Cage platform height	3.5m
SWL	200kg
Total Length when boom fully lowered	3.85m
Cage overhang when Down / Full Height	1.6m / 0.55m
Width outside tyres	2.1m
Rear machine height	1.3m
Ground clearance	0.19m
Total Weight approx.	1.3
Tray size in front of engine bay	1m x 0.34m
Maximum slope sideways	12.5° at full height
Maximum slope forwards	15° at full height
Ground Speeds kmph Gear 1, 2, 3	0-3, 0-4, 1-7 kmph
Wheel torque (Max)	2,800 N-m
Standard Drive wheel tyre	26 x 1200 x 12 8 ply
Caster wheel tyre	22 x 1200 x 12 - 6 ply
Air Compressor cfm	6 CFM, 2 stage
Engine	16 HP, V twin cylinder OHV, Vanguard
Optional extra	
6 CFM Air Compressor	Optional
Picking bags std or delux	Optional
15" Drive wheel	Optional
One Man Cage Hand & Foot Control	Optional
Hyd Outlets in Cage	Optional