

SMART

An ever-increasing range of quality products is now available under the SMART banner and these all offer outstanding price-to-specification ratios. They're sold, serviced and supported nationwide by HOWARD and our dealer network. Recent additions to this range include the Falc Rotary Hoes, the great little 'Rocky' Slashers, and the impressive TLF Lateral Mowers. So why don't you make the SMART decision now?



▲ FALC ROTARY HOES.

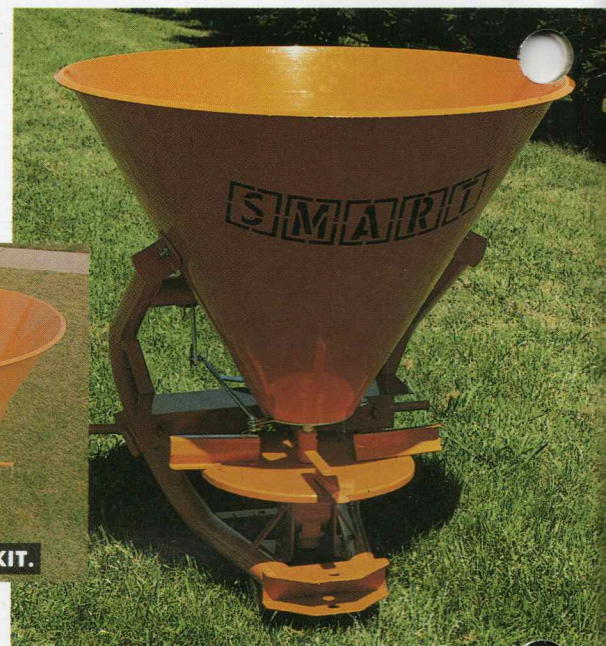
The Real Alternatives, and unbeatable for specification and price. There are 5 tillage widths to choose from: 1.5m, 1.7m, 2.0m, 2.3m and 3.0m, and each features a four speed gearbox, closed end rotors, swept back blades and dual depth control skids. Models available to suit tractors from 33kW (45hp) to 80kW (100 hp). Both central and offset mounting is available on all models



SMART MOWERS. Built with an emphasis on safety and longevity, SMART Mowers are ideal for maintaining parks, golf courses, sportsovals, hobby farms. Three sizes: 1.2, 1.5 and 1.8 m



SIDE SPREADING KIT.



SMART SPREADER. Designed and built for easy operation, accurate spreading and simple cleaning. Spreads left, right or centrally. Generous 9 bag capacity. Options include an articulated agitator for powders, a side spreading kit and weather-proof hopper cover.

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FALC SHREDDERS. Built tough to stand up to the rigours of a long working life, FALC Shredders efficiently cut and mulch maize, cereals, sunflowers, cotton, tobacco and more. Choose from eight sizes from 1.6 to 6.4m. Tractor power output required is from 36kW (50hp) to 112 kW (150hp) horsepower with 540 rpm at the PTO.

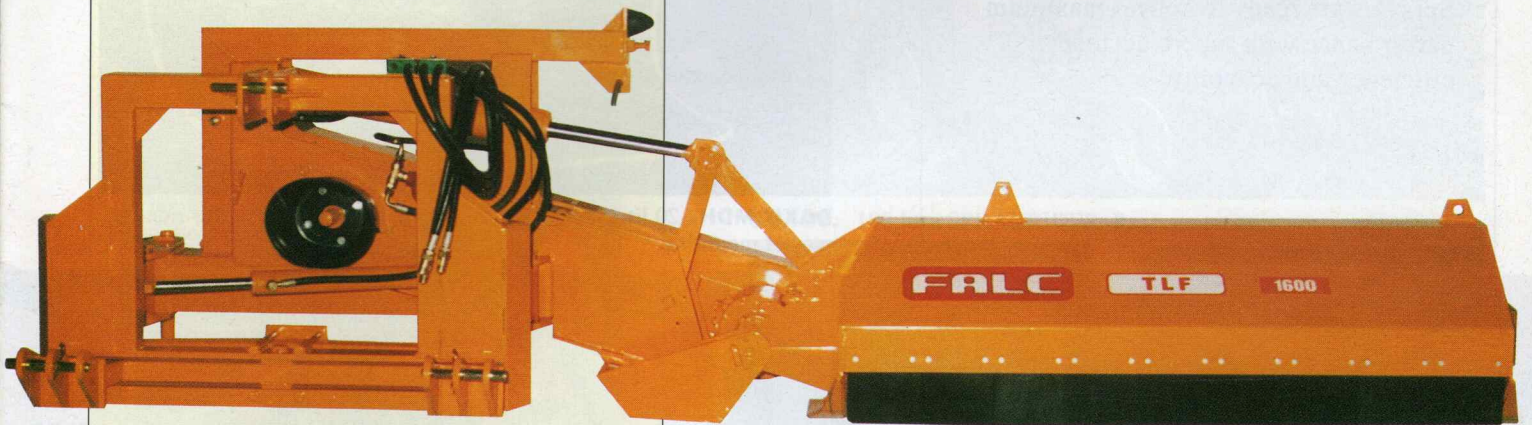
SMART



SMART TINE CULTIVATORS. Ruggedly constructed, easy to use and highly versatile, these cultivators offer outstanding value for money. Six sizes: 1.0 to 3.1m.



SMART 'ROCKY' SLASHER. A no-nonsense general purpose slasher, the Rocky will give years of unstinting service in rough, tough conditions. Two sizes to choose from: 1.35m and 1.5m, and compatible with tractors from 15kW (20hp) to 30kW (40hp), with 540rpm at the PTO.



FALC TLF VERGE MOWERS. 3pt linkage mounted and packed with features, the TLF comes in two sizes, 1.6m or 2.1m, and as standard offers fore and aft mounting options, lateral shift facility, varying operating angles, an automatically resetting breakaway, and a suspension system with a 'gas' accumulator for float. Ideal for tractors between 45kW (60hp) and 80kW (100 hp) with 540 rpm at the PTO.



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C-DAX

MINI SPRAY EQUIPMENT THAT'S READY TO TAKE ON THE MAXI JOBS.

12 volt spray equipment has, over the last decade and a half, become established as a reliable and efficient technology, widely used by growers in numerous areas of primary industry. SMART C-DAX was at the forefront of the development for this technology and is now a most trusted name for agricultural and horticultural spray equipment.

SMART C-DAX also brings its design and manufacturing expertise to the user of mini spray equipment, with the remarkable Daxit range. Choose from a comprehensive range of models including spray guns, boom sprayers and a linemarker system. Smart Daxit Mini Sprayers are ready to deliver maximum performance with superb accuracy, efficiency and economy.



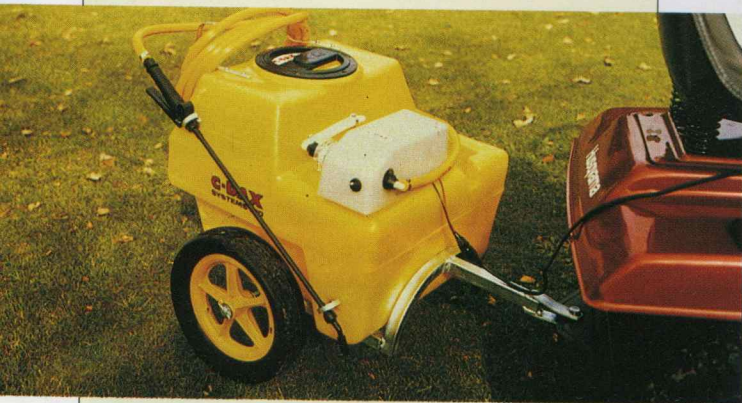
DAXIT NODDY. 20 litre self-contained mobile handgun sprayer. Ideal for smaller areas



DAXIT DSP. 53 litre self-contained mobile handgun sprayer. Big capacity, great value!



DAXIT MDH. 20 litre capacity mini handgun sprayer. Great for ride-on mower mounting.



DAXIT TD. 53 litre capacity handgun sprayer. Tow it behind your ride-on mower or ATV.



JACPOT LINEMARKER. A 53 litre capacity self-contained mobile sprayer for linemarking sports areas and playing fields.



DAXIT BOOM KITS. Broaden your spraying horizons with a 1, 2 or 3 metre boom. T300 (3m) Boom fitted to Daxit TD illustrated.



DAXIT JACPOT. The unique Jacpot is a 53 litre capacity self-contained mobile boom sprayer that's purpose-built for areas such as bowling and putting greens.

C-DAX

SPRAYRIDER SERIES.

Purpose designed and built for mounting on your ATV these fully self-contained 12 volt powered spot sprayers are the ultimate. Available with tanks of 60 or 100 litre capacity, the SPRAYRIDER Series is the ideal weapon when you're serious about spraying.

In New Zealand, C-DAX equipment is available from the dealers of C-DAX Systems Ltd, Palmerston North. Phone (06) 354 6060 for information.

C-DAX ROTARY ATOMIZERS MAKE TIME AND MONEY GO FURTHER.

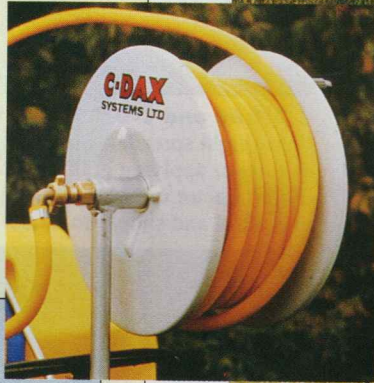
Controlled Droplet Application (CDA) is a spraying technique that allows you to use very low application rates. And CDA is easy using a C-Dax rotary atomizer. You'll be able to cover large areas with each tank load and achieve a fast turn-around on all kinds of pasture, turf and arable crops. The end results are vastly improved efficiency and dramatic savings in time, spray material and money. Available in boom widths from 1.8m to 7.2m.



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SR 60. 60 litre SPRAYRIDER. Front mounted.



SR 100. 100 litre SPRAYRIDER. Rear mount only.



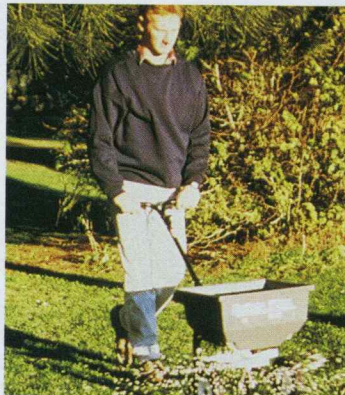
SP1. Shoulder held 10-15kg broadcaster.



HERBI. Low volume, hand-held sprayer.



CB 3000-H. 25kg broadcaster ideal for trailing behind ride-on mowers or ATV's.



CB 3000. 25kg hand-pushed broadcaster.



DS 3000. 25kg hand-pushed drop spreader.

C-DAX

QUICK-SMART MAKES THE CONNECTION EASY.

Your ATV can be transformed into the ultimate farm machine with the QUICK-SMART attachment system. Attach or detach your equipment in seconds with no spanners and no hassles. QUICK-SMART is to the ATV's what hydraulics were to the Fergie! You won't believe how quick it is!



U 200 SERIES. Compact 200 litre capacity, 12 volt powered, fully self-contained spot sprayers that are versatile enough for towing behind an ATV or mower or mounting on an ATV flatdeck, truck, ute or trailer.



C-DIT 60 and C-DIT 130. The new C-Dit 60 and C-Dit 130 range of lightweight spreaders are 12 volt DC powered and are great for fertilising, dusting or applying granules and feed additives. Mount one on your bike, trailer, tractor or utility. With spreading widths of up to 33 feet, this easy-to-control and simple-to-adjust spreader will save both time and money.



DS 1000. Highly accurate digital speedometer. Attaches to your ATV to ensure spray rates and coverage areas are precisely measured and controlled.

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PRESSURE NOZZLE BOOM KITS. 2, 3, 4 or 6 metre booms will help make the most of your Sprayrider. These are easy to attach and easy to operate. Rigid (WB) booms, or those with either vertical (V) or horizontal (SL) folding facility are available. And if need be they can be mounted via the revolutionary QUICK-SMART (QS) attachment system.

FOAM AND DYE MARKERS. 24 litre Foam Markers are available with single or double droppers to ensure accurate coverage



C-DAX



QS-V300. 3.0m pressure nozzle boom with QUICK-SMART attachment and safety breakaway device and vertical fold.



QS-318. 5.4M 'CDA' Boom with QUICK-SMART attachment.



BOX-IT. The ideal carryall and storage container for ATV's, utes and cars.
Size: 880 x 360 x 270mm.



Z WIPER. The 2.2m coverage ensures maximum weedkill with a minimum of fuss.



BSLV. Low volume, inexpensive band spraying with all the attributes of CDA. Coverage: From 1.0m.



BUDGET BOOM. The offset nozzles on this boom make it your only choice for firebreak or fence line spraying. Coverage: 4.5m.



U 200T. For broad area spraying nothing beats this 200 litre trailed sprayer with 7.2m CDA boom and QUICK-SMART attachment.

ROTASLASHERS

CUT THROUGH YOUR WORKLOAD.

Grass comes in many different shapes and sizes. But no matter what variety you're cutting, you want the job done quickly, cleanly and efficiently. Which is why HOWARD makes a range of tough and reliable rotary slashers. Whether your needs are light-duty grass cutting or heavy scrub control, HOWARD have a machine to make the job easy. Every model is fully warranted and is built to keep on cutting year after year after year.



ROTASLASHER WHEELS. Laminated height control wheels. Standard on the EHD 210 & 360. Optional on the MD, HD and EHD 150 & 180.

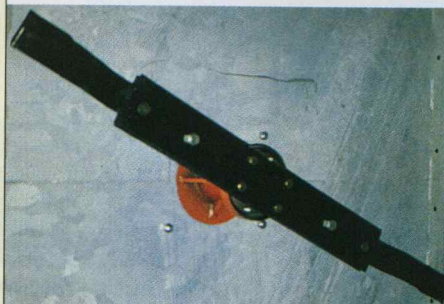


▲ EHD SERIES. Ready to take on just about anything that grows, this Extra Heavy Duty model has no horsepower limit at 540 rpm PTO speed. Standard with a tough galvanised body and available in 1.5, 1.8 and 2.1m cutting widths.



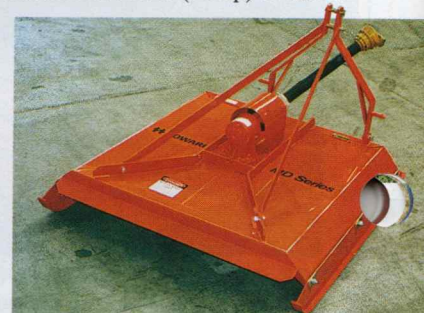
▲ EHD DREADNOUGHT.

The big gun of the range. When you need to knock down acres of rough stuff all day, every day, the Dreadnought's 3.6m cutting width and utter reliability is the machine for you. Recommended for tractors of 70kW (90 hp) or more.

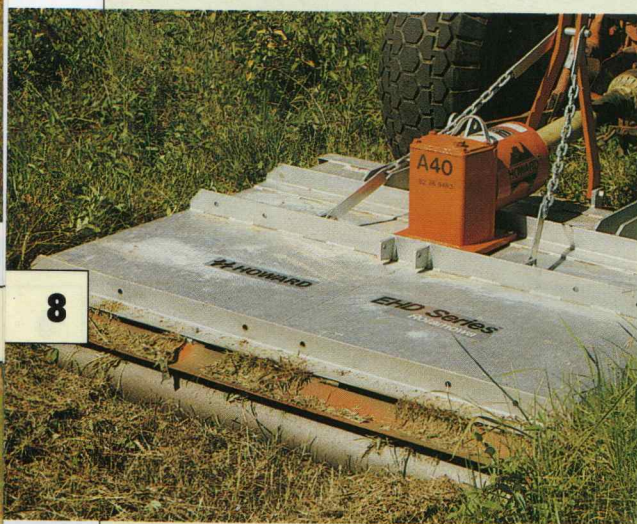


BLADE BEAM MOUNTING FLANGE.

Both the HD and EHD series Rotaslashers feature a one piece spindle and blade beam mounting flange. The blade beams are spring steel.



MD (NUGGET) SERIES. Our medium-duty, general purpose Rotaslasher. Recommended for tractors up to 45kW (60 hp) 540 rpm PTO only. Available in cutting widths of 1.35, 1.5 and 1.8m.



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EHD ROTAMOWA. For heavy duty cutting. Designed specifically for Councils and contractors for grass, weed and regrowth control. The Rotamowa is fully safety shielded for use in populated areas and comes as standard with both front and rear rollers. Cutting widths: 1.5 and 1.8m. Recommended for tractors from 30kW (40hp) and upwards. 540 rpm PTO only (NB: LD series Rotaslasher also available with rollers).



LD SERIES. A light duty Rotaslasher but no lightweight performer. Recommended for tractors up to 34kW (45 hp) 540 rpm PTO only. Available in cutting widths of 90cms and 1.2m.



HD SERIES. A heavy duty slasher for serious work. Recommended for tractors up to 64kW (85 hp) 540 rpm PTO only. Available in cutting widths of 1.5 and 1.8m.

ROTARY MOWERS

PROCUT. The Procuto is the most advanced ultra low profile rotary mower on the market, thanks to an unbeatable combination of modern technology, robust construction and proven performance. Available in five models with cutting widths from 1.38 to 2.74m. Recommended for tractors from 10kW (14hp) to 55kW (75hp).




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STEALTH. Beneath its stunning exterior lies a ruggedly constructed and easily serviced machine utilising reliable and well proven componentry. Stealth is a multi-spindle, rotary mower which cuts a swath of 3.42m yet folds to tractor width for easy access through gateways and for safe road transportation. Top cutting performance is guaranteed with the combination of high blade tip speeds and small blade beam diameters which give more blade passes per metre of ground travel. It's THE ULTIMATE WING! Front or rear mount available.



'THE ULTIMATE WING'



In New Zealand, EZEEMOW, STEALTH, MULCHMASTA, PROCUT and TOPPER are available from the dealers of Trimax Industries Ltd, Tauranga. Phone (075) 410 411 for information.

FLAIL MOWERS & TOPPERS

MULCHMASTA. Does two jobs at once - cuts and mulches - and does them better than any other machine on the market. Highly versatile and solidly reliable, the Mulchmasta has an outstanding reputation for its mowing qualities and mulching performance. The ideal unit for use in parks, reserves, roadsides, orchards and pasture topping. Suitable for tractors up to 64kW (85 hp) and available in widths of 1.45 to 2.35m.



SIDEWINDER. Get even more from your Mulchmasta by fitting a Sidewinder. This unit clears mulched prunings and grass from the access tracks between rows of plantings. Material can then be deposited in either a spread or windrowed condition beneath or beside the trees and vines. Directing mulch to the optimum location aids moisture retention, restricts weed growth and reduces chemical usage. Available in sizes to suit all Mulchmastas.



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MULCHMASTA. With rear roller.



MULCHMASTA. With skid attachments.



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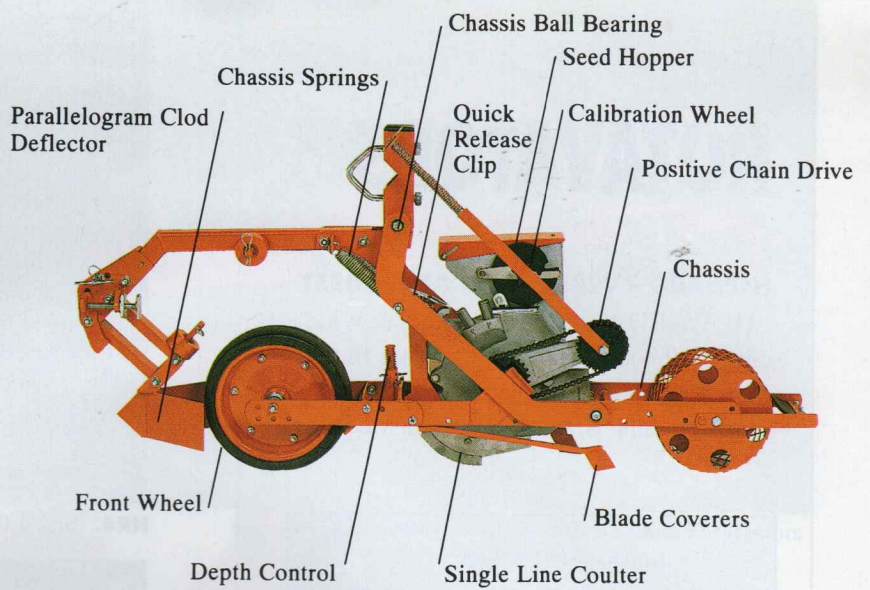
TOPPERS. Just released and already making a big impression. HOWARD Toppers are designed and engineered with reliability and longevity in mind and come in cutting widths from 1.74 to 2.98m.



EZEEMOW. The ideal solution to tight and difficult mowing areas. Ezeemow is a highly manoeuvrable light-duty flail mower suited to compact tractors up to 18kW (25 hp). 540rpm PTO only. Cutting widths 1.16 to 1.5m.

PRECISION SEEDING

Accurate planting of seeds is vital for any grower to produce controlled crops. So whether you're sowing large areas or small, you can count on the Stanhay Webb range of seeders for economy, reliability and versatility. From the simple wheel drive Robin series to the sophisticated Singulaire 785 precision vacuum seeder, Stanhay Webb gives you the perfect start to your growing season.



▲ **SINGULAIRE 785 ROW UNIT** Clod deflector and cage rear wheel are optional. Single or multi-line coulters available.



▲ **STANHAY SINGULAIRE 785.** Incredible accuracy and easy handling of virtually all vegetable seeds, plus multi-line planting capability, large hopper capacity and a variety of adjustments to cater for specific crops, make the Singulaire 785 precision vacuum seeder the first choice for precision planting.

► **STANHAY 870.** The world-beating precision drill that offers single or multiline planting with accuracy and economy.



ROBIN 820. Versatile and economical hand propelled unit that's simple to use and maintain.



ROBIN 830. Double row planter for use with two wheel walk-behind tractors.

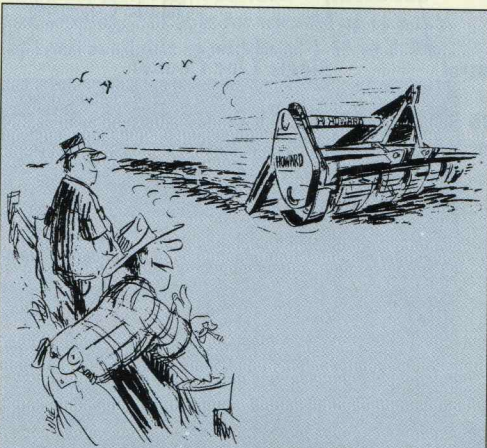


ROBIN 840. Low cost precision drill for compact tractors or ATVs.

ROTAVATORS

HOWARD - VERSATILITY AT ITS BEST

HOWARD'S extensive range, & wide choice of rotors & blades, ensure that there's a Rotavator to suit all your tillage requirements. Sizes from 80cms to 4.0m.



"WHY ROTAVATION?"

For the man on the land no commodity is more precious than his soil. Its care and preparation are the keys to both short and long term farming success.

That's why Rotavation makes such good sense - both economical-ly and environmentally. Rotavation physically restructures your soil, building texture and a soft, mellow quality that provides improved moisture retention properties.

Valuable crop residues are chopped and evenly distributed to form nutrient-rich, soil-building humus and prevent compaction. As a result the seed bed will warm up faster in Spring, stimulating earlier germination and greatly improved yields.

Rotavated fields assist in soil conservation because they are more resistant to wind and water erosion. They hold their shape better & are easier to work season after season.



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HR4. Size 1.05m. Suitable for tractors up to 17kW (23hp).



HR8. Sizes 80cms to 1.25m. For tractors up to 33kW (45hp).



SUPA 'T'.
Designed to mix crop residue into the soil yet stay clean in heavy trash conditions. Leaves the soil broken and loose to working depth.

ROTAVATORS

PERFORMANCE AT ANY POWER.

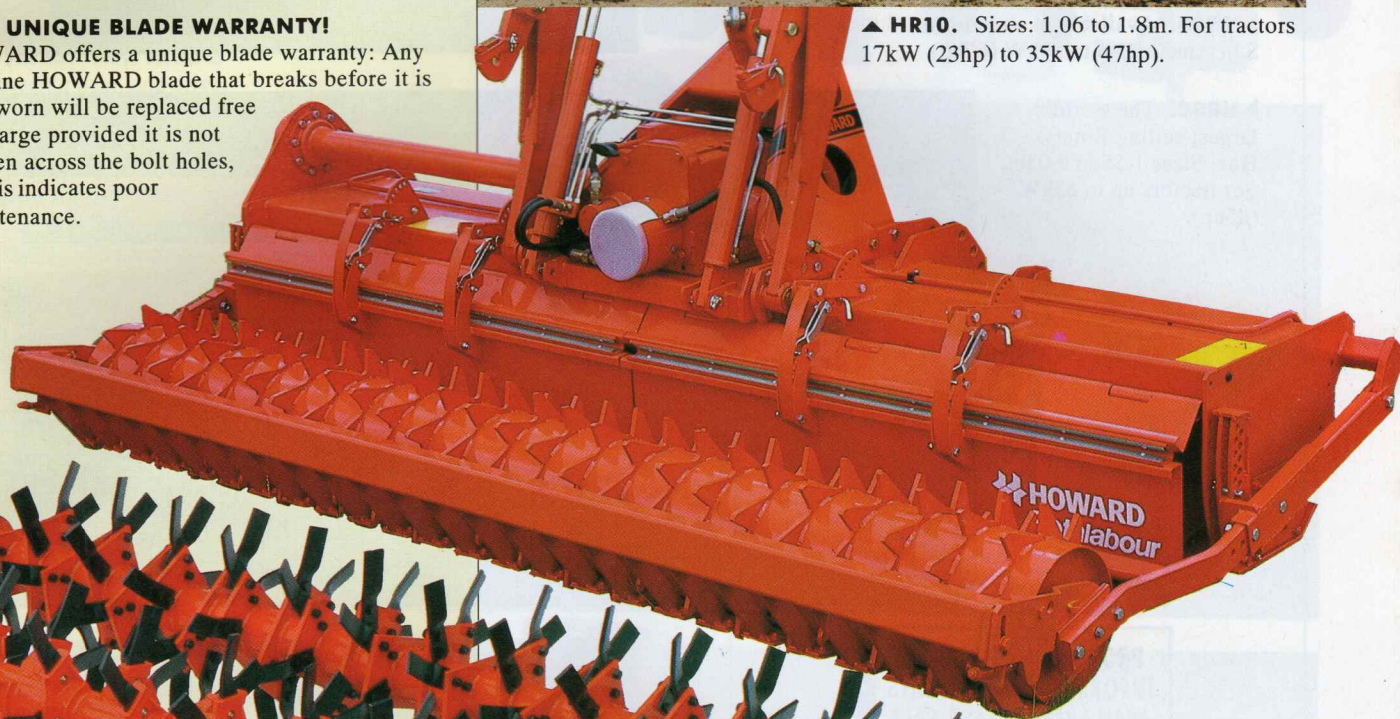
You can put the power of a HOWARD Rotavator to work in your soil with any tractor from 7.5 to 184kW (10 to 250hp). That's HOWARD versatility at work.

OUR UNIQUE BLADE WARRANTY!

HOWARD offers a unique blade warranty: Any genuine HOWARD blade that breaks before it is half-worn will be replaced free of charge provided it is not broken across the bolt holes, as this indicates poor maintenance.



▲ **HR10.** Sizes: 1.06 to 1.8m. For tractors 17kW (23hp) to 35kW (47hp).



ROTALABOUR. A secondary tillage rotor and blade for rapid preparation of seedbeds.



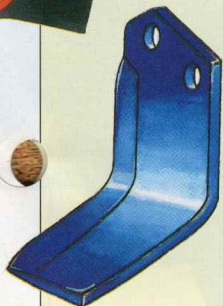
ROTALABOUR F1. Designed for tough, stony conditions and deep or shallow cultivation in secondary tillage. Features one-bolt fixing for easy blade replacement.



ROTAPOINTE. Made with an aggressive attack angle for direct cultivation of hard or stony soils.



ROTASEMIS. Purpose-designed and built for rotavating in rowcrops.



STANDARD ROTAVATOR. The all-purpose blade for primary cultivation, crop residue incorporation, stubble cleaning and grassland renovation.

WIDE CHOICE OF BLADES FOR THE STANDARD ROTOR TO SUIT ALL TYPES OF CULTIVATION.

POWER BLADE ('L'): For general purpose rotavating and tillage.

SUPER POWER BLADE: Heavier than the Power Blade, for longer life in abrasive soil conditions.

LONG SHANK BLADE: General purpose blade allowing deeper tillage depths.

SPEED BLADE ('C'): Used to avoid rotor 'ball-up' in sticky wet soils and heavy crop conditions.

USE ONLY GENUINE HOWARD BLADE BOLTS AND NUTS.

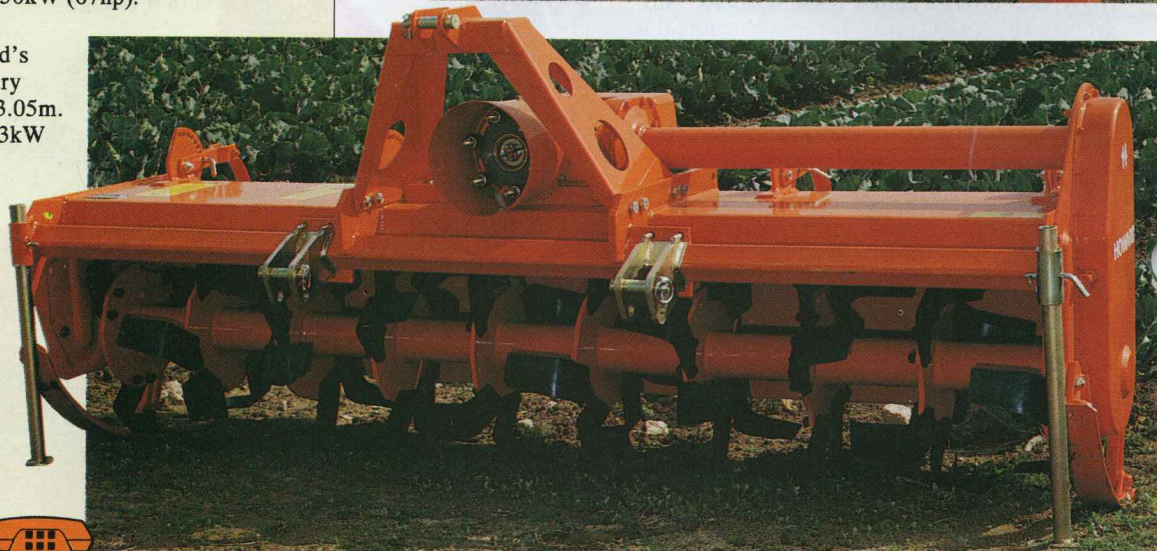
Ordinary bolts don't have the correct thread length or tensile strength. Should they stretch, elongation of the holes in the flanges will result.

ROTAVATORS

Maximize your productive capacity and minimize soil damage and erosion with a Howard Rotavator. With so many models to choose from, there's certain to be one that's perfect for your operation.

► **HR20.** Available in sizes from 1.3 to 2.05m. Suits tractors up to 50kW (67hp).

► **HR30.** The world's largest-selling Rotary Hoe. Sizes 1.55 to 3.05m. For tractors up to 63kW (85hp).

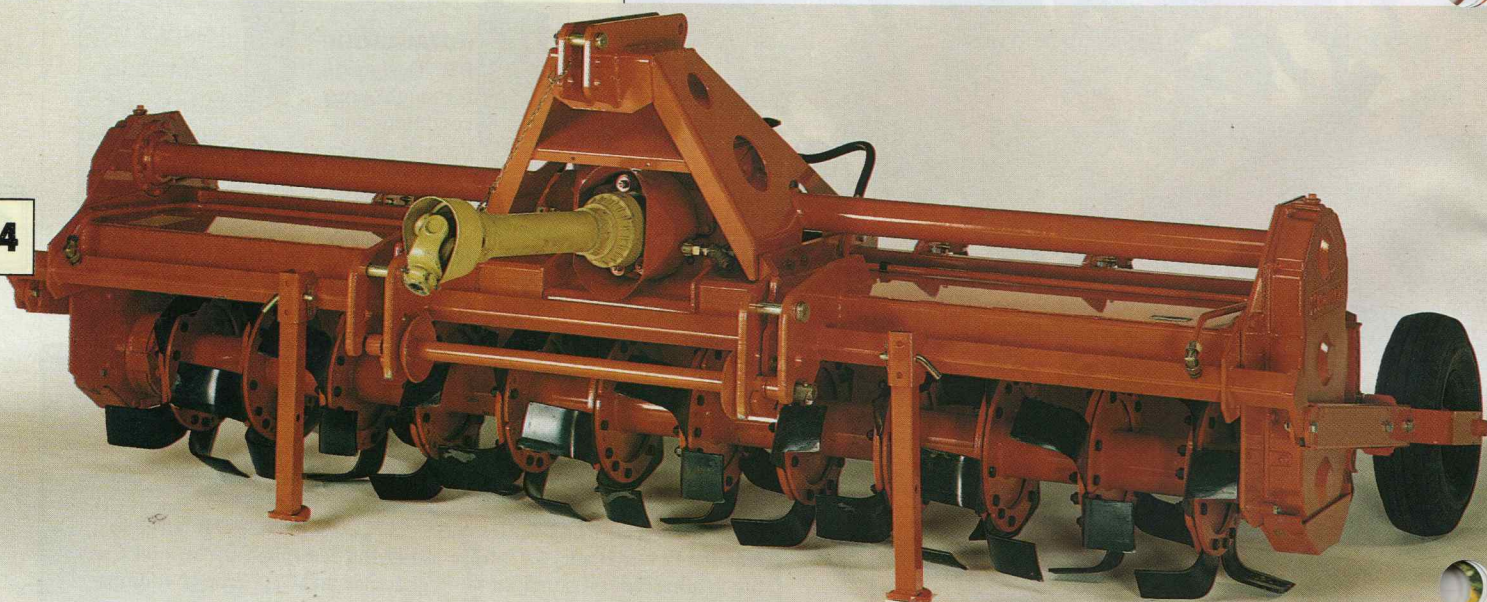


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► **RENOVATING ROTOR.** Straight knife-like blades designed to aerate and stimulate the soil with minimal surface disturbance. Will fit both the HR20 and HR30 Rotavators.

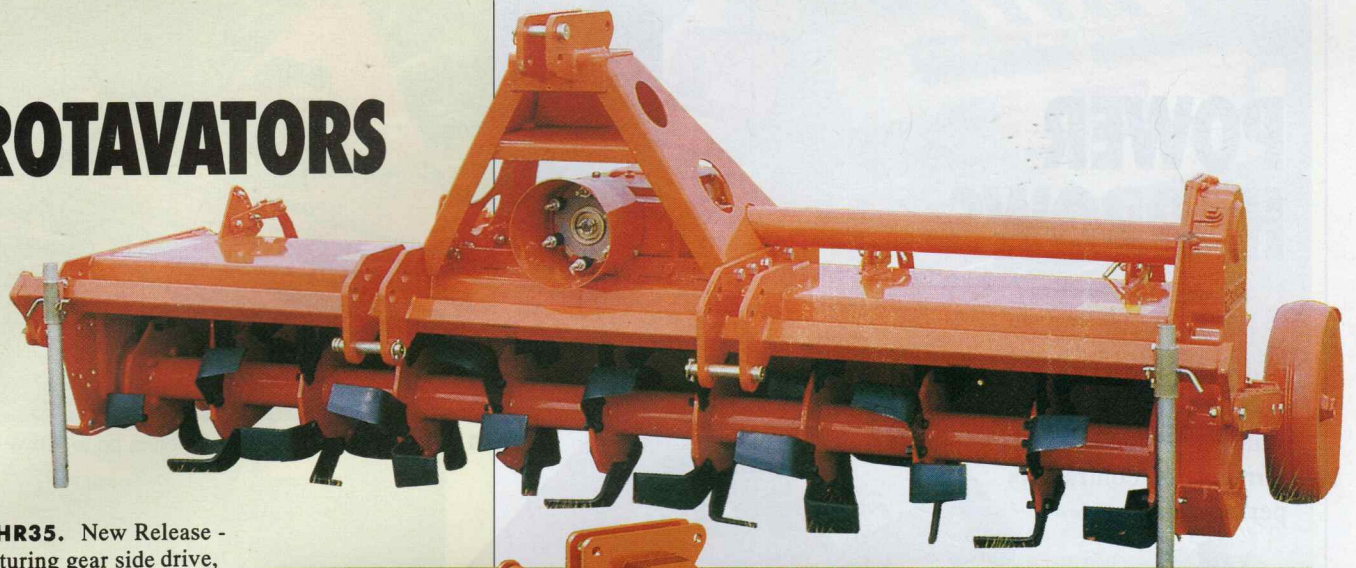


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HR50. The industry-leading Dual Drive Rotary Hoe and Number One in the field! 3.05m of rotating power. Suits tractors to 115 kW (150 hp).

ROTAVATORS

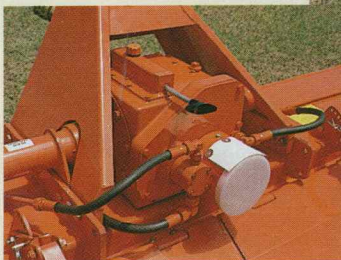


▲ **HR35.** New Release - Featuring gear side drive, Selectatilt gearbox and suitable for tractors up to 67kW (90 hp). Available in 2.5m and 3.0m sizes.

▶ **HR40.** The heavy-weight performer. Sizes from 2.05 to 3.05m, and suitable for tractors up to 90kW (120hp). The biggest selling 100hp-plus Rotary Hoe in Australia.



▶ **HR42.** New Release. Bridges the gap between the HR40 and the HR50. It comes in 2.5m and 3.0m sizes and has a lever change oil-cooled gearbox with rear PTO that is rated for tractors up to 100kW (135 hp).



HR60. Developed for the big tractor owner, the HR60 makes efficient use of available horsepower, maximising return on capital by reducing costs per hectare. Available in 3.3m and 4.0m widths and designed for tractors up to 184kW (250hp). 8 speed gearbox, pumped oil cooling, rear PTO and dual side gear drive are all standard.

POWER HARROWS

Howard Power Harrows are a rugged and reliable range of powered cultivators with a versatility that makes them suitable for the many different tasks farmers and contractors perform.



▲ **HK20.** Sizes 1.55 to 3.0m. For tractors up to 70kW (95hp).



◀ **HK30.** Available in sizes from 3.0 to 3.5m. Suitable for tractors up to 100kW (120hp).



HK40. Powerful enough to perform day after day in all conditions. Available in sizes from 3.0 to 4.0m. Suitable for tractors up to 110kW (150hp).

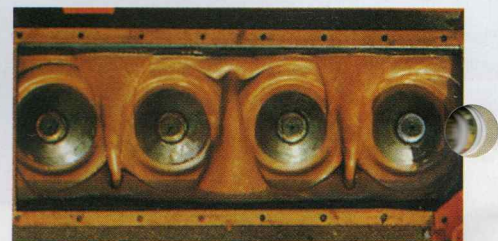
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To ensure they give maximum performance throughout a long working life, Howard Power Harrows have perfectly matched components. For example, the one-piece drop forged spindle is mounted in a single housing that carries both bearings. This guarantees accurate bearing alignment.



The drop forged self-sharpening blades are manufactured from an alloy steel with a high carbon factor and are designed to cut through wet or dry soil with minimal horsepower requirement.

The massive gear trough on all Power Harrows features a totally immersed gear/bearing design with no top bearings in the lid. This ensures all moving parts are continually lubricated for long-term operating efficiency.



VINE & SOIL

► **ROTAPRESS.** Automatic pressing programmes make operation fast, efficient and easy. The Rotapress gives high output and maximum quality. Hygiene is assured, as all parts that contact the fruit are accessible for cleaning without any dismantling.



▲ **CHISEL PLOUGH.** Performs a wide range of tillage tasks from pasture renovation to ripping. Choose from six sizes, 1.85 to 4.56m.

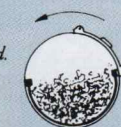


(1) **Filling and draining.** The drum stops automatically with the door in the top position.

(2) **Pressing and draining.** On commencement, the drum stops with the bladder in the top position. The bladder is then inflated to the pre-selected pressure level.

(3) **Mixing.** After pressing the bladder is decompressed. The drum then begins to rotate and mixing takes place.

(4) **Emptying.** At programme end, the drum is stopped with the door openings in the top position. It is then opened and the drum rotated on manual control for emptying.



▲ SWING PLOUGH.

A revolutionary reversible plough design that's simple to set up, faster to operate than conventional ploughs and requires less horsepower.

By hydraulically swinging the plough beam from left to right, the soil flow across the mouldboard is reversed. The result is a reversible plough that uses half the bodies of conventional implements and therefore has less weight, shorter length, fewer wearing parts and a lower cost.

Each furrow width is 460mm (18") wide. The Swing Plough in available is 3,4,5 and 6 furrow versions.



PARAPLOW. Unrivalled as a soil loosening implement, the Paraplow with its unique angled leg is an outstanding performer in both pasture and cropping applications.



SIDESPREADER. The long-life, low maintenance muck spreader that distributes virtually all types of organic material, liquid or solid.

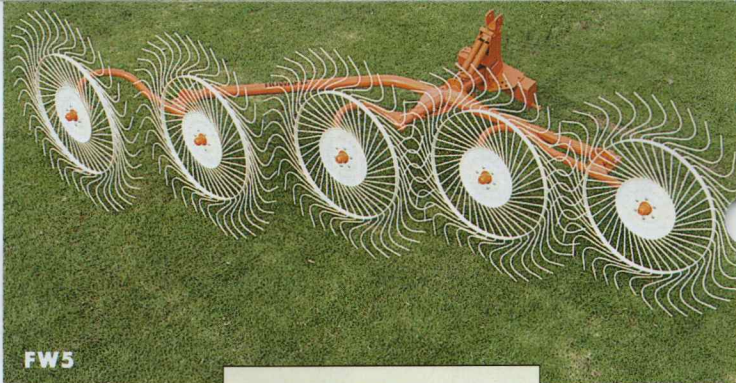


MONOSEM: EUROPE'S No 1. SEED DRILL. Unique pneumatic design selects seeds automatically without any mechanical adjustment. The ideal seeder for corn, sorghum, sunflower and many other crops.



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HAY EQUIPMENT



FW5

SIDE DELIVERY RAKES



▲ **DCM DISC MOWER.** Choose from three sizes of Disc Mower for fast, clean cutting of light or heavy crops. Hydraulic lift is a standard feature. Cutting widths available are 1.65, 2.1 and 2.45m.



TR7

▲ **FW SIDE DELIVERY RAKE & TR SIDE DELIVERY RAKE.** Howard supplies a comprehensive range of fast and efficient finger wheel rakes in both mounted and trailed designs. Choose from nine different models with raking widths from 2 to 8.7m.



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► **HAYTRIX.** The universal haymaker that spreads, tedds and windrows. 3 metre working width - yet only 27kW (35hp) is required for operation.

► **'V' RAKE.** Improve your productivity by linking two standard finger wheel rakes together on the special 'V' rake frame.





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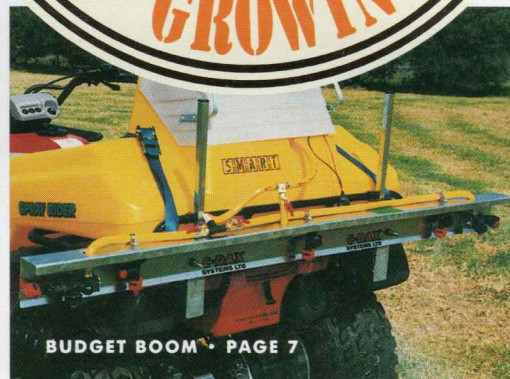
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DEALER:



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Spares. (02) 674 2133 A.C.N. 002 960 778



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