

PRODUCTS



Kawasaki Motors Corp. is now marketing their small air-cooled engines in North America. The small two-cycle engines are from .8 through 4.3 horsepower; four-cycle engines range from 2.3 through 20 horsepower, and larger two-cycle engines are available through 70 horsepower.

All Kawasaki four-cycle engine models are suitable for industrial and commercial use. They include such standard features as: ball bearings on both ends of the crankshaft and camshaft, mechanical governor, stellite-faced exhaust valve, cast-iron cylinder or cylinder liner, and high quality air and fuel filtration systems. All help to increase engine life. The 8 through 20 horsepower models also include counter balance shafts and the 14 and 20 h.p. models have an internal trochoid oil pump.

All two-cycle engines are equipped with ball or needle bearings on each end of the crankshaft, chrome-plated or cast-iron cylinder liner and forged steel connecting rod with bushing or needle bearings on each end. All engines are quiet and smooth running.

Circle 701 on free information card



A new model, featuring a liquid-

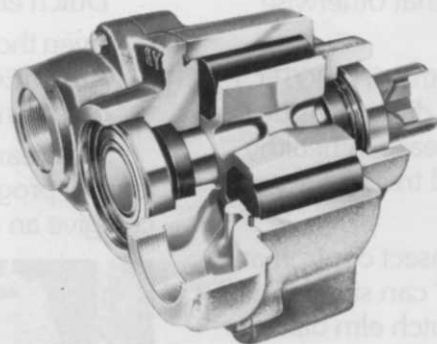
cooled industrial engine has been added to Excel Hustler line of commercial mowers built by Excel Industries, Inc.

The significant difference between the new model 295 and the acre-proven 285 is its engine. Unlike automotive type engines commonly installed on mowers, this 2-cylinder, long stroke Continental engine develops high torque at lower RPM, which adds to engine life and delivers superior performance. Its manufacturer claims easier servicing, lower upkeep, and less downtime; Excel engineers are enthusiastic, viewing it as the ideal choice to meet market demands by groundskeepers whose specs require a liquid-cooled engine.

Dual hydrostats move each drive wheel independently, with twin hand levers that control both the speed and direction of movement, including the start and stop as well as reverse. The big 72" mower can perform intricate turns without time-consuming antics that mark ordinary mower operation; this also relieves operator fatigue, a claim based on input from present Excel Hustler owners.

The line is built with a full safety package, and attachments that permit year-round use of the tractor are available. Excel Hustler mowers qualify for GSA and HUD purchases.

Circle 702 on free information card



A large capacity roller pump capable of delivering up to 80 gpm at speeds to 600 rpm and pressures to 150 psi is being manufactured by Hypro Division of Lear Siegler, Inc.

The Series 1100 pump is designed for operation at 540 rpm tractor power take-off speeds and combines the performance range of multi-stage centrifugals with pressure advantages of positive displacement pumps. It is available with 6-spline

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Circle 146 on free information card

hollow shaft for direct pto mounting or 1 1/4 inch solid shaft for coupling to pto tumberod.

The pump's positive displacement design, providing high pressure performance, makes it ideally suited for servicing long discharge lines on transfer equipment and large scale spray rigs which require higher pressures to supply extra boom nozzles and check valves. The pump handles a full variety of agricultural chemicals including plain water. An added benefit is its self-priming ability. It is self-priming to 10 ft. (lifts 22 ft. primed).

Circle 703 on free information card



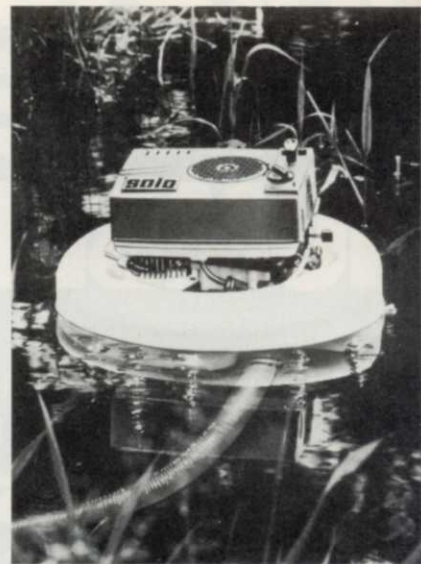
The Off-Set is now offered by

Terrain King Corporation. Off-Set has a cutterhead that delivers a full 5 1/2 foot cut and utilizes a unique float system that allows this cutterhead to follow the contour of the terrain without operator control.

One feature is its exclusive, patent-pending shock absorbing system. This system acts as a release mechanism, allowing the cutterhead to move rearward when obstructions are hit. By doing so, it is both an accident preventor and cost eliminator. The action gives the operator added time to react and avoid sudden, dangerous jolts. And it protects tractor frames and bell housings from costly damage and repairs.

A second feature is the parallel linkage system. This system makes the Off-Set the only machine of its type that can lift the cutterhead over obstructions without tilting the outside edge upward and exposing the rotary blades. It can lift the cutterhead from 5 inches below grade to 13 inches above grade while maintaining a constant relative angle to the ground. This not only means added speed advantages, but overall machine safety.

Circle 704 on free information card



Solo announces the availability of its new Floating Pump, Model 830. Powered by one of the company's time proven 4 hp, 2-cycle engines (92 cc) displacement, 5.6 cu. in., it delivers up to 5,800 gallons per hour (22,000 litres per hour) to a total head of 100 feet (30m).

Encased in a unique plastic floating body; this pump is buoyant



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and most important derives the liquid from the cleanest area — only inches below the surface, reducing priming time to almost nil. Suction hoses are not needed. The pump's central intake port is away from mud and grit and a screen protects the internal parts, which are made of high impact plastic.

Weighing only 26 lbs., this pump is easily transportable and was designed for its practicability and economy.

Circle 705 on free information card

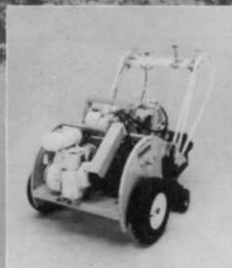


The newest and smallest member of the Water-Winch traveling sprinkler line is announced by Ag-Rain, Incorporated. The WW-1400M is designed specifically for use on small acreage, and should be of interest for farmers; flower, fruit and vegetable growers; athletic fields and parks; sod farms and golf courses.

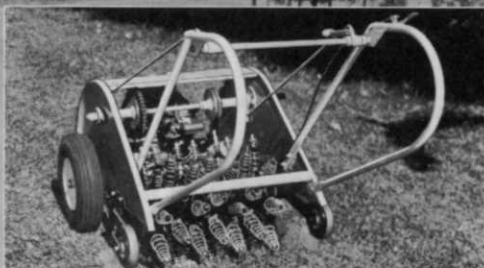
Powered by A-Rain's exclusive patented radial inflow turbine drive, the WW-1400M has infinitely variable travel speeds with 1000 foot maximum travel distance. This compact traveling sprinkler has wide flotation tires and uses 2½" hose that can be reeled onto the built-in hose spool by attached PTO shaft. The WW-1400M has a flow capacity of 60 to 150 gallons per minute and incorporates most of the proven features of the larger Ag-Rain travelers.

Circle 706 on free information card

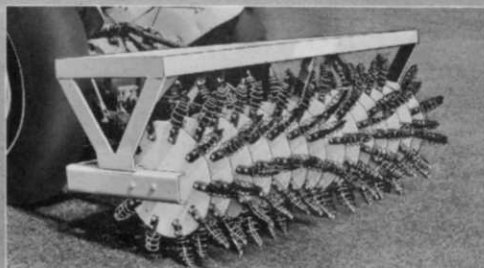
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Circle 154 on free information card



The new Davis W4, a compact ½ yd³ articulated loader with standard features normally found on larger equipment, was recently introduced by The Davis Division at J I Case.

The economically-priced W4 is powered by a standard 26.4 kW (35 hp gross) 4-cylinder liquid-cooled diesel engine, and was designed to handle a wide range of construction and utility loading jobs. Other standard features include 4-wheel hydrostatic drive with mechanical 2-speed transmission, a mechanical self-leveling bucket, bucket level indicator gauge, power steering, easy loader controls, and an electric cold-start preheat system.

Center-pivot steering allows 70° total hydraulic articulation — the front and rear wheels always follow the same track. Combined with total frame oscillation of 16°, the W4 provides stable ground contact over rough terrain.

The new loader has a total break-out force of 2381 kg (5250 lbs) and total hydraulic lift capacity of 2858 kg (5700 lbs) at ground level. Maximum loading height for the W4 with full dump clearance is 3121 mm (91.4").

Circle 707 on free information card

Continues on page 87



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Circle 169 on free information card



Massey-Ferguson introduces six new compact tractors designed to meet increasingly important uses for tractors in the smaller size range. The new line features high cubic-inch-displacement diesel engines ranging from 20 to 31 engine horsepower (16 to 26 PTO hp). Three of the six are among the few four-wheel-drive machines available in North America in this power range.

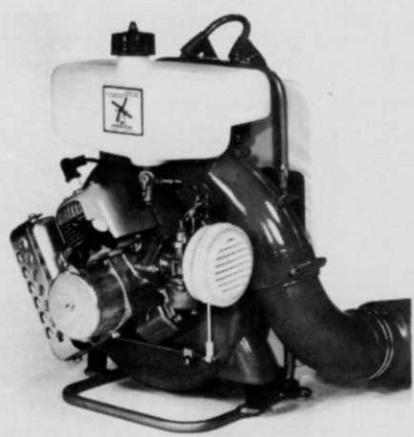
The six tractors are the 20-hp MF 205, the 25-hp MF 210 and the 31-hp MF 220 plus their four-wheel-drive counterparts, the MF 205-4, the MF 210-4 and the MF 220-4.

The MF 210 and MF 220 two-wheel-drive tractors feature adjustable, swept-back front axles as standard equipment. The other four models have standard axles. Differential locks and both hand and foot throttles are standard.

All models are equipped with a 540-rpm, transmission-driven rear PTO with overrunning clutch. Front PTO capability will be available on all models.

The new small tractors feature large-capacity hydraulic pumps. These provide position control for the hydraulic linkage on the MF 205 and MF 210.

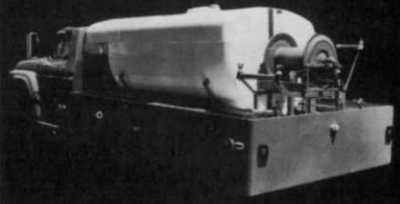
Circle 708 on free information card



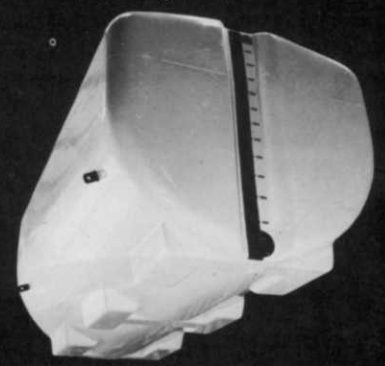
Vandermolens new Windmill 55B Backpack Blower features a "tilt-proof" fuel tank. The unique shape of the fuel tank with its downward sloping bottom, feeds fuel to the carburetor even when the blower is tilted sideways or forward on the



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Model #PC 1200 fiberglass tank equipped with fiberglass pump cover, Model #D 200 gallon mixing tank shown mounted on a custom truck body by Strong Enterprises.



Bottom view of the Model #PC 1200 tank showing to best advantage the integral molded mounting base and steel hold-down lugs designed for ease in mounting on your truck and eliminating costly installation.

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 APRIL 1979/WEEDES TREES & TURF 87



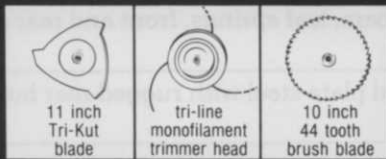
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- Tri-line, heavy duty monofilament trimmer head.
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11 inch Tri-Kut blade

tri-line monofilament trimmer head

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The 2 cycle, 22.5cc engine, can be operated in any position. Total wgt. 13½ lbs.

1. Monofilament trimmer head
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Circle 155 on free information card

back of the operator.

The Windmill Backpack Blower is designed for commercial use. The "tilt-proof" fuel tank has over a ½ gallon capacity for 2 to 2½ hours of continuous operation. This blower has the features that professional users want on a backpack blower: powerful airblast, rugged build, dependable performance, and full control of airblast direction.

Circle 709 on free information card



The Model 300 Shredder-Mixer, a high capacity organic materials processor, has been introduced by the Environmental Products Division of Royer Foundry & Machine Co., Kingston, Pa. The new unit is sized for processing topsoil, composted leaves and sewage sludge, peat, and other organic materials.

The all-hydraulic, diesel-powered Model 300 features Royer's patented cleated-belt which provides continuous four-step processing that shreds, mixes, and aerates up to 75 cubic yards of material per hour while automatically separating non-shreddables.

The power system on the Model 300 combines a 58 hp diesel engine with hydraulics to produce smooth performance. Hydraulic controls permit the operator to govern the speed of the conveyor as it feeds material to the shredding belt.

Loaders of 1½ or 2 cubic yards can be used to fill the shredder-mixer's 2.34 cubic yard receiving hopper. In operation a 20-inch inclined conveyor belt, built into the large hopper, delivers material to the machine's high speed, patented shredding belt. Thousands of tempered steel cleats on the belt shred the material in an endless raking action, and discharge it through adjustable, variable sweep fingers. Rejected sticks, stones, woodchips and other trash roll back to a refuse chute for separate discharge. The high discharge of the shredder-mixer permits stockpiling or direct loading of trucks.

Circle 710 on free information card