

 HOWARD®

THE NEW COMPACT ROTAVATORS®

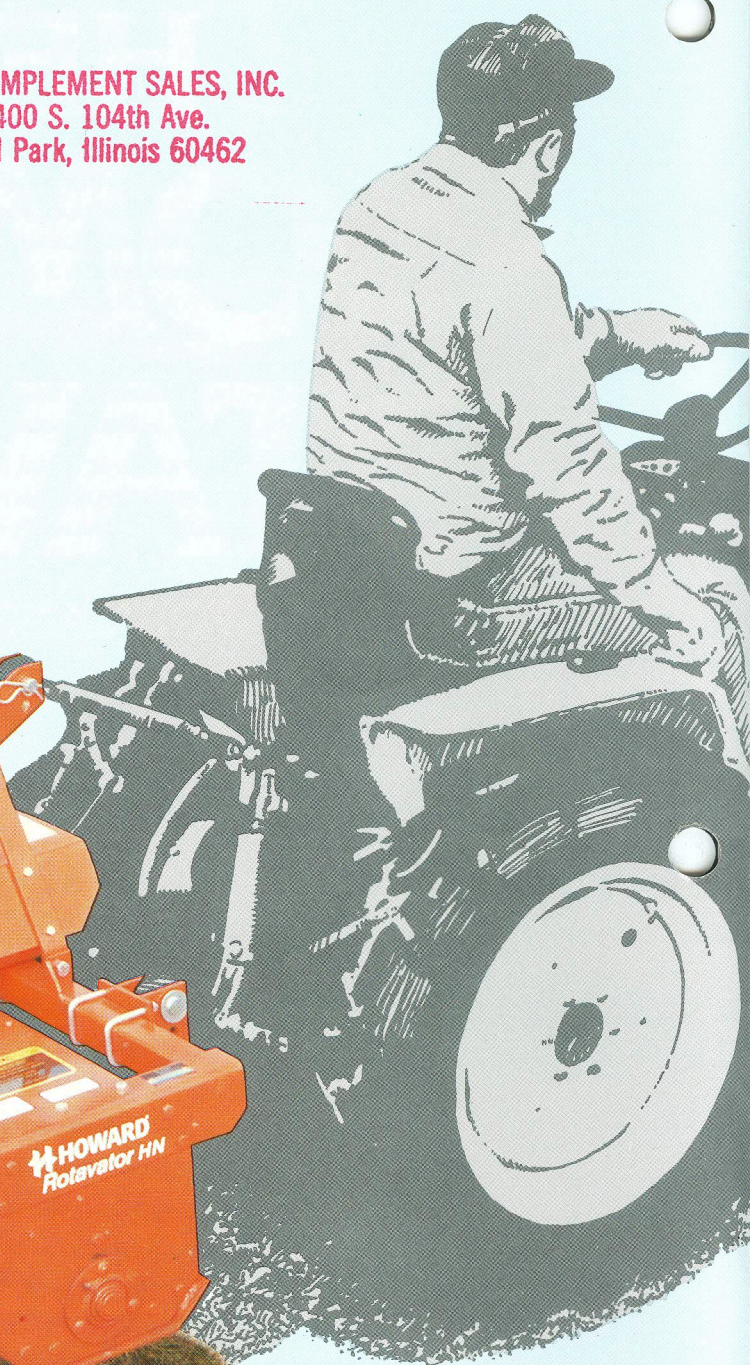
BIG TILLAGE PERFORMANCE FOR NEW SMALL TRACTORS



THE MODEL HN

MARTIN IMPLEMENT SALES, INC.
16400 S. 104th Ave.
Orland Park, Illinois 60462

Provides complete
soil management
with compact
tractors...



10 to 20 H.P.

THE MODEL HJ

Brings a new range
of applications to
small-H.P.
tractors...



15 to 30 H.P.



If you own, or are considering buying a compact tractor, you'll be operating a low-profile, high-performance unit of 10 to 30 horsepower that's scaled to your needs. You'll want a rugged, fully reliable tiller, not a scratcher, to match your tractor's output!

HOWARD ROTAVATOR, the leader in two new tillers for truly professional performance. The new model HN and HJ ROTAVATORS are specifically designed for compact tractors in the lower horsepower range. They are ruggedly built to take the job of a landscaper, fruit and vegetable grower or small-acreage farmer requiring the performance demanded by the hobby farmer and serious home gardener. You'll get the performance from the HN and HJ because they are heir to the tradition of Howard, apart from other power tillers. That's also why you can count on these tillers in the same price and horsepower range!



Primary tillage and cultivation is easy, whether you're working directly from pasture, alfalfa or old lawn, or on varying soil conditions . . . for everything from fruit and vegetable beds to cultivating shrubs. The rotavators also offer maneuverability to work efficiently on small landscaping sites, plus weed control for lawns. For obtaining better soil structure, a more stable soil moisture retention, and ultimately higher yields, the performance demonstrated by large-scale farmers at the introduction of the HN and HJ ROTAVATORS is proof. Whether you're a professional or a hobbyist.

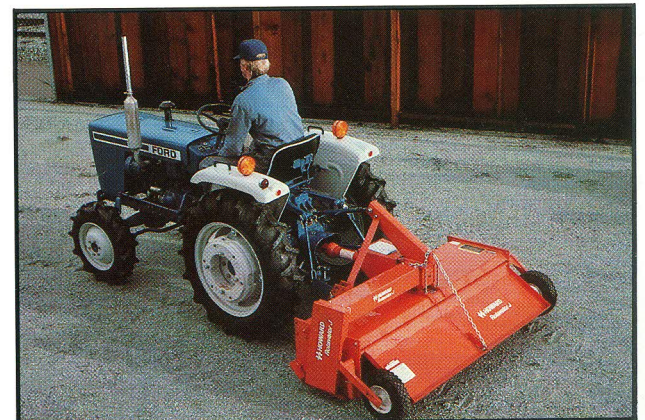




powered rotary tillage, proudly announces performance in all tillage applications. Use with the new breed of small ag on any job the professional nurseryman, es, yet they also offer the simplicity of You can expect this superior of quality which sets the ROTAVATOR line new machines to out-dig, out-last and out-perform any other rotary



y with the HN or HJ ROTAVATOR — even when preparing ground ns. Get perfect seedbeds with the exact tilth control needed for hing from seeding grass to preparing flower ops and berry bushes. These new ROTAVATORS iently in the confined areas often found on many or nurseries and berry growers. The benefits of even mixture of crop residues, better moisture through ROTAVATION have long been nd commercial growers. Now, with the ATORS, these benefits are also available to you oyist who wants professional results.



 **HOWARD®**



Crop residues, chopped and blended throughout the seedbed, improve soil structure.

ROTA VATION. With a ROTAVATOR you have the most modern and effective method for preparing seedbeds. The rotating blades slice and lift the soil, while also chopping and mixing in weed and crop residues. You get far less compaction . . . the cause of hardpan . . . because those tedious multiple passes by plow, disc and harrow are eliminated. It's all done in a single pass with the ROTAVATOR. What's more, the same machine is equally effective for weed control.



Compact size is ideal for tilling/cultivating in confined areas.



Your First Concern Is Your Soil. Machinery doesn't produce high yields . . . your soil does. But the ROTAVATOR can do a lot to improve your soil structure. First, by mixing the soil . . . not turning it. Mixing keeps the rich topsoil where it's needed . . . on top. The ROTAVATOR also chops and blends the crop residues throughout the seedbed to give an even mixture of humus-producing materials that keep the soil open to air and nutrients. Your seedbeds warm up quicker; seeds germinate earlier.

Think Next Of Your Tractor. A ROTAVATOR works with your tractor . . . not against it. It operates directly from the P.T.O., which gives the blades a forward thrust that actually helps move the tractor ahead and eliminates wheel slippage. And since the ROTAVATOR is doing the work of plow, disc and harrow in a single operation, it minimizes tillage passes. That means far better use of your tractor's power. And better use of your time.



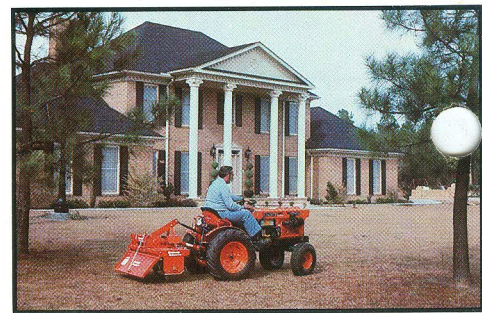
ROTA VATOR is designed for tractors with Category 0 or 1 - 3-point linkage.

ROTA VATOR models are available in 32", 40", 50" and 60" tillage widths.



Twin depth-control wheels are standard on HJ 40", 50" and 60" models.

And Finally, Think of Economy. Both the HN and HJ ROTAVATORS are low in price and high in performance. They are every inch Howard, built to the same exacting standards as all Howard equipment to assure year after year of low-maintenance operation. Combine this low initial cost and low-maintenance operation with the power saved on your tractor, plus your time saved in the field, and you have a truly economical soil management system.



Home gardeners, landscapers, hobby farmers and nurserymen all use ROTAVATOR for professional results.

SPECIFICATIONS

General Specifications

Transmission: By shielded U.J. assembly to single speed gearbox for use with multi-speed tractor P.T.O. Final drive to rotor by high-fatigue-capacity chain. Special reverse gearbox available.

Rotor: Four blades per flange. Rotor speed adjustable via tractor P.T.O.

Blades: Forged from Chrome Alloy Steel and heat treated.

Depth of Cut: Adjustable to 7" maximum by tractor hydraulics, adjustable skids or depth-control wheels.

Shipping: Each machine fully cartoned with pallet base.

Model HJ

Power Range: For 15 to 30 h.p. tractors with maximum engine capacity of 100 cu. inches or 75 ft/lbs torque.

Linkage: Category 1 - 3-point linkage.

Width of Tillage: 32", 40", 50" or 60" centrally mounted.

Slip Clutch Protection: Is original equipment for all models.

Shipping Specifications:

Model	Weight	Length	Width	Height
HJ 32	510	50	29	30
HJ 40	560	60	29	30
HJ 50	590	60	29	30
HJ 60	660	70	29	30

Model HN

Power Range: For 10 to 20 h.p. tractors.

Linkage: Category 0 or 1 - 3-point linkage.

Width of Tillage: 32", 40" or 50", centrally mounted or offset.

Slip Clutch Protection: Is original equipment for all models.

Shipping Specifications:

Model	Weight	Length	Width	Height
HN 32	348	52	29	30
HN 40	385	52	29	30
HN 50	420	66	29	30



THE HOWARD ROTA VATOR COMPANY
A Member of the Howard Group of Companies

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