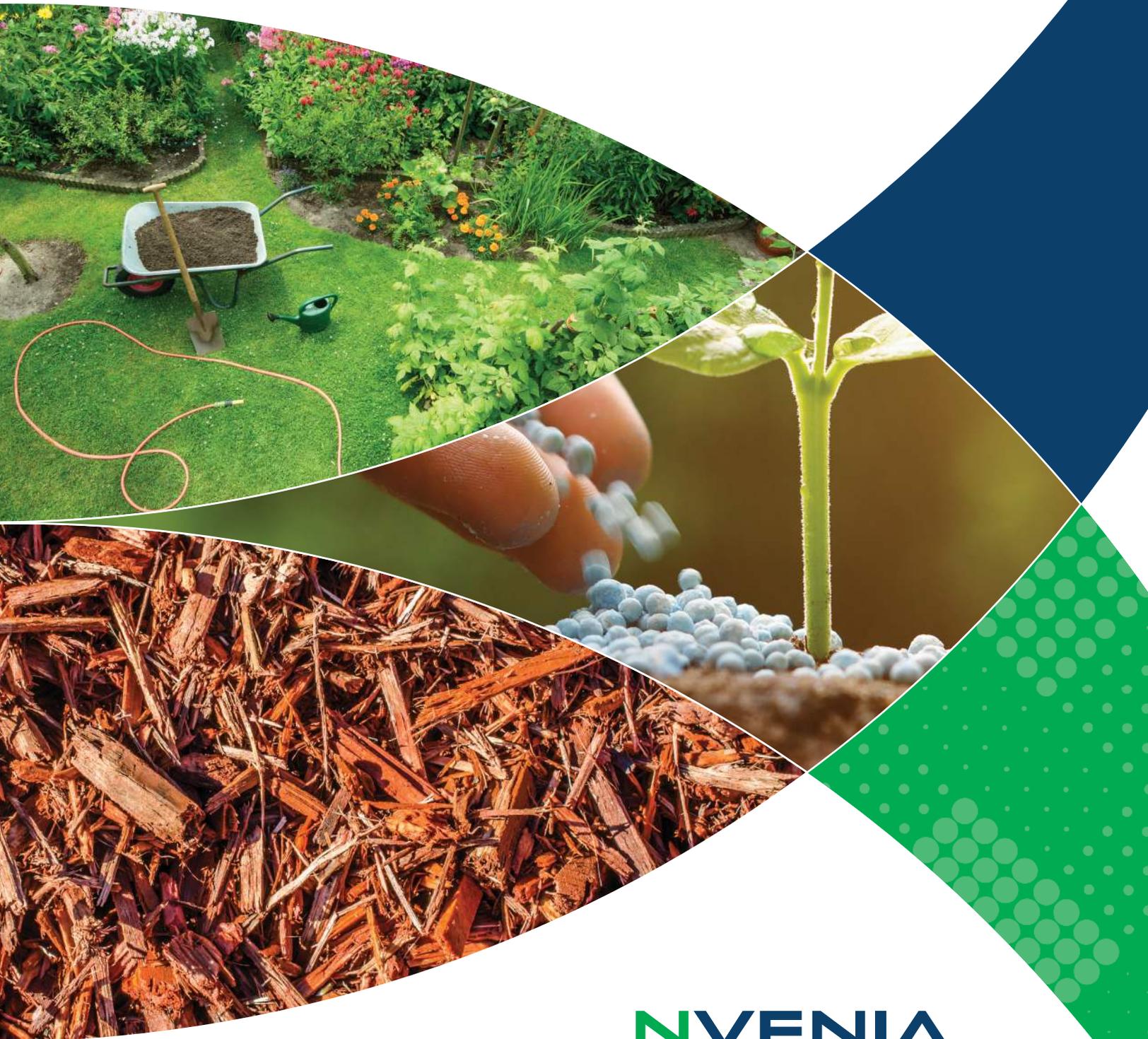


LAWN & GARDEN SOLUTIONS



NVENIA

A DURAVANT COMPANY

nVenia Knows Lawn & Garden

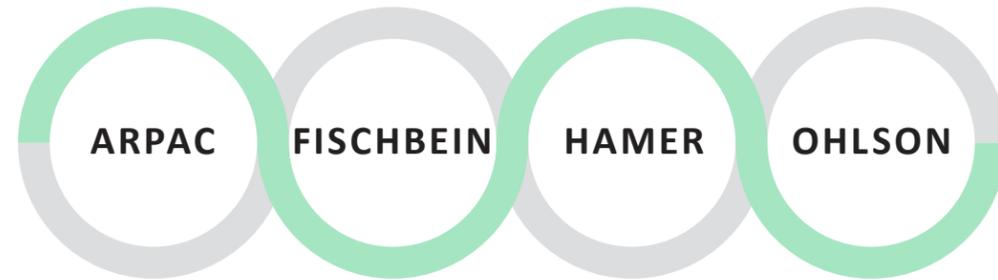
Our Hamer and Fischbein brands have a combined 200+ years' experience automating the operations of industrial manufacturers the world over. We have improved packaging line efficiency and profitability in some of the harshest, most demanding environments.

Our portfolio includes the widest range of weighing, filling and bag closing technologies including: manual, semi and fully automatic bagging systems; form, fill and seal bagging automation, conveyors and robotic bag palletizers.

We serve diverse end markets from agriculture, animal feed, seed, pet food, chemical, mineral, milling and lawn & garden – but we know your lawn & garden operation inside and out.

Automate now with the best partner – nVenia.

The nVenia
Family of
Brands

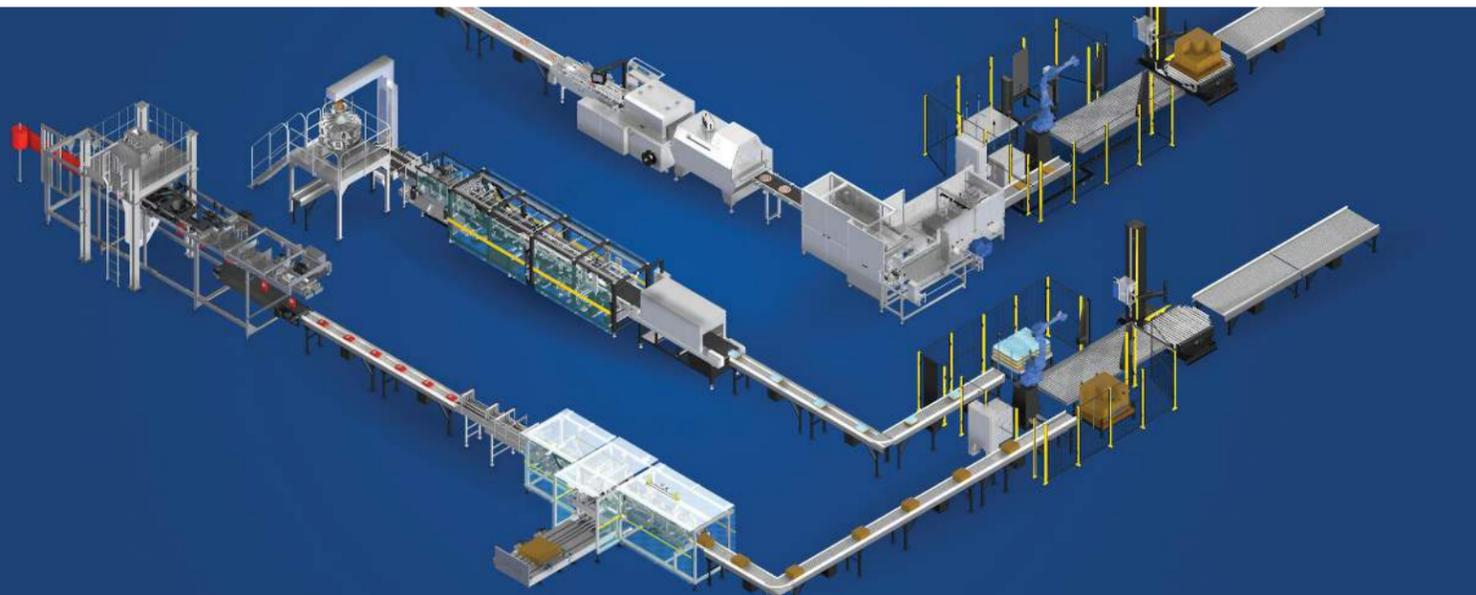


Take it from our customers:

"We've seen a significant increase in our bags produced per minute since working with Hamer Brand bagging equipment to fully automate our facilities."

"Efficiency is critical to our industry, thus the more bags per minute, the more valuable the equipment is to us. nVenia has a more efficient line at a lower cost to run and maintain."

"In our plant we run hard – almost twice a standard line's annual production. We've gained about 25% in bag rate productivity."



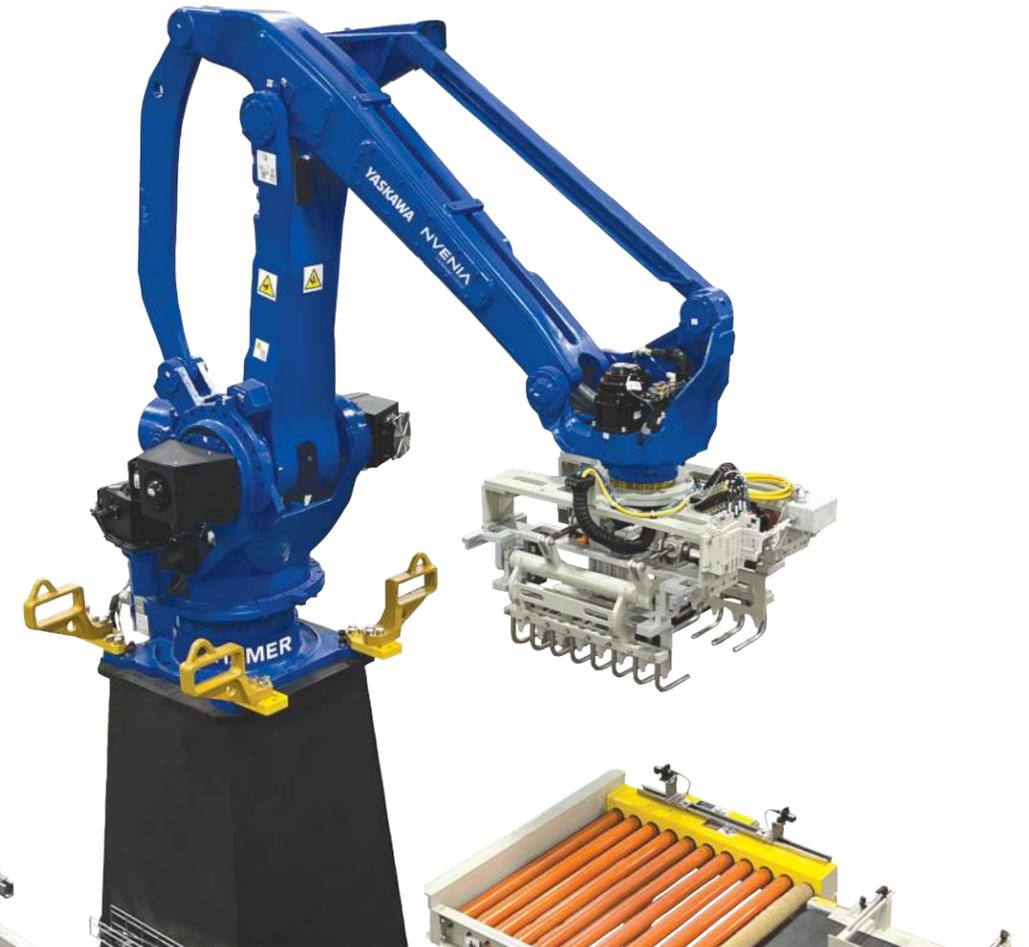
Robotic Bag Palletizers Drive Quick ROI

Cost Effective, Low Maintenance, Easy to Run

Robotic Bag Palletizers have proven to be an outstanding low cost solution for lawn and garden bagging automation. A growing number of customers are choosing Robotic Bag Palletizers over traditional palletizers or hand stacking.

A variety of mulch, soils and landscape materials are more effectively handled by robotic bag palletizers. With small footprints and lower maintenance than traditional mechanical palletizers, they offer significantly lower cost, leading to faster return on investment.

Robotic palletizers also reduce the risk of back injury due to hand stacking, and keep product lines running at consistent rates day in and day out.



How Semi-Automatic Palletizing Works

This configuration employs dual cells where 2 pallets are set on 2 floor locations. Once pallet 1 is complete, the robot moves to pallet 2 to continue stacking while a fork truck removes the first full pallet and places a new empty pallet. When pallet 2 is complete, the robot automatically shifts back to pallet 1 and the process repeats.

How Fully-Automatic Palletizing Works

Pallet and slip sheet dispensers automatically feed pallets into the robot palletizing area based on sensors that indicate when a new pallet is needed, and full pallet transfer conveyors automatically deliver full loads into integrated wrapping or stretch hooding equipment.

nVenia's Solutions For Full-Line Bagging Automation

Consistent product feed and accurate repeatable volume

The wide variety of mulch and soil types create numerous challenges for fast, accurate feeding and bag filling. The Hamer Model 300VF handles them all – one machine, for many kinds of lawn and garden products.



- 20" wide belt allows for accurate dosing of both mulch and soil products
- Leveling wheel adjusts from 2" to 8" in height, for accurate measurement of both compressed and fluffy products
- Separate controls for belt speed, wheel speed and cut off gate allows you exact control over the feeding/dosing of products
- SEW Eurodrive motors with VFD controls provide long wear cycles and better dosing control
- With no leveling chains, sprockets or clutch brake motors to wear or fail, your annual savings add up quickly

The Hamer Model 300VF's unique leveling wheel makes the managing of feeding and bagging easy. Separate VFD drivers control the leveling wheel and feed belt, so the operator can set rates for your product and your product alone.



Automatic - Volumetric bagging for non free-flowing products like soils, mulch, and compost

Special Automatic - Volumetric bagging for abrasives and aggregates such as paving stone, pebbles, and decorative rock

Manual - Volumetric bagging for soils, mulch, and compost

Improved uptime and production throughput

The HAMER Brand Model 2090 FFS does just that, bringing Horizontal Form, Fill and Seal packaging at up to 34 bags per minute. From the new belt path to simplified bag size changes, the operator has far less work to keep this machine making you money. The exclusive double-sealed, self-cleaning pulley design requires no adjustments and keeps contaminants away from the belt path bearings.

The HAMER Brand Model 2090 is designed to support a wide variety of bag sizes with minimal hardware changes. Bag change times are only a third of that required for previous HFFS and vertical FFS - less than twenty minutes. The Hamer Model 2090 HFFS is an ideal solution for mulch and soil bagging. Its secondary settling device, located in the stage bag area, reduces bag jams and ensures high productivity.

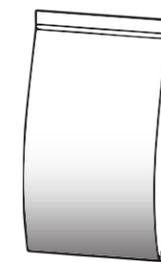


nVenia Hamer Model 2090 with optional second Vertical Roll Holder

WHAT BAGS CAN I USE ON A 2090?



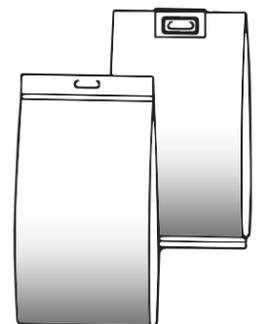
Miter Corner
45° seal across corner improves pallet wrapping, reduces corner damage



Bottom Gusset
Three to six inch bottom bag gusset



Top Trimmed
Top two inches of bag removed



Handle
A variety of bag handle styles are available

Manual Bagging Systems

When you need a simple, reliable, and accurate manual bagging line, nVenia has you covered

The Hamer and Fischbein Brand hand bagging line is built around the proven Hamer Model 300VF Volumetric Filler and the Fischbein Model HAS 220 Hot Air Sealer.

Using a simple hand bagging chute the Hamer Model 300VF clamps a pre-made poly bag in place as an operator hangs it for filling.



HAMER Brand Model 300VF



HAMER Brand Model 4000



FISCHBEIN Brand Model HAS 220

Once filled, the bag is transported on a Hamer Model 4000 upright bag conveyor and sealed with a Fischbein Model HAS 220 Hot Air Sealer.

The Fischbein Model HAS 220 Hot Air Sealer is the industry standard poly bag sealer, meeting all environmental and operational requirements of demanding bagging applications.

We also offer a variety of bulk in-feed hoppers and conveyors for virtually any Lawn and Garden product.



DURAVANT LIFECYCLE SERVICES

Our Commitment to Our Customers

At nVenia, we know the power of a great company lies in its ability to delight their customers. That is our number one focus. From your first consultation to start-up, we will be with you every step of the way. Our promise to deliver an excellent customer experience is built on:

- Responsiveness
- Attention to Detail
- Communication
- Quality
- Collaboration
- Partnership

Our commitment doesn't end there - Our Lifecycle Services team ensures comprehensive support throughout the entire life of your equipment. Through Duravant Lifecycle Services, nVenia customers gain access to the collective power of Duravant, including global reach and financial strength.

nVenia is fully committed to delivering an unparalleled customer experience - now and always.

Success Stories From Our Customers

MARKMAN PEAT

Since 1940, Markman Peat Corporation, a manufacturer and wholesale distributor of premium soils, decorative rock and mulch to the lawn and garden industry, has been providing the functional and aesthetic trappings that make a well-kept yard or grounds complete. Their high-quality products are sold under the All American and New Plant Life brand names.

When owners Brian Sherrick and Jeff Widdop began to position their company for growth, they researched various manufacturers and visited several sites to watch machinery run. They decided to deploy nVenia's Hamer Brand equipment in order to increase production and improve packaging line efficiency.

The results?

"We've grown the business significantly in sales and number of bags produced and reduced our workforce by 50% over a seven-year period by automating with Hamer Brand equipment," said Widdop. With three locations, the company has made huge investments in equipment for the operation. "My lead factor in determining the equipment to purchase is what it costs to put the product in the bag," said Widdop. "We use Hamer Brand equipment for all of our plants. Efficiency is critical to our industry; thus, the more bags per minute, the more valuable the equipment is to us. Hamer Brand equipment is a more efficient line at a lower cost to run and maintain."

All Markman Peat facilities utilize several Hamer Brand automated bagging lines which include the Model 300VF high speed volumetric filler, the Model 2090 Form, Fill and Seal automated bagging machine, and fully automatic high speed robotic bag palletizers. nVenia's broad experience in the lawn and garden industry means we know the demands you face every day, and will ensure your equipment purchase pays off dividends in the future.

A MULCH MANUFACTURER

After two seasons they saw significant impact to their business due to reduced wear and maintenance and improved uptime and performance for all three lines.

A mulch manufacturer in Florida invested early in bagging automation. Their first generation of Form, Fill and Seal machines worked well for almost a decade, but when demand increased they were ready for an upgrade. After reviewing competing equipment, their management team flew to a new Model 2090/300VF installation to see them in operation. Seeing these machines run illustrated the vast differences between other manufacturers' equipment, and older models like their own. This led to the purchase of three Model 300VF volumetric fillers to upgrade existing bagging lines.

After two seasons they saw significant impact to their business due to reduced wear and maintenance and improved uptime and performance for all three lines. "It used to be every season we had to tear apart the Volumetric Filler and replace sprockets, leveling chain and often a clutch brake. We have not replaced a part on the fillers in two seasons," said the plant manager. Overall, every part of these machines show design improvement.

"Our guys find them easier to run and keep running. In our plant we run hard – almost twice a standard line's annual production. We've gained about 25% in bag rate productivity with these new lines!"

The customer was so impressed with the performance of the three Model 300VF that they bought a fourth line a year later!





NVENIA

750 N. Wood Dale Road
Wood Dale, IL 60191
info@nVenia.com
800.253.5103
www.nVenia.com



LIFECYCLE SERVICES

750 N. Wood Dale Road
Wood Dale, IL 60191
service@nvenia.com
844.777.8776
www.nvenia.com/services



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