STRATEGIC TILLAGE
THE RIGHT MACHINES FOR YOUR AGRONOMIC TARGETS
LEMKEN is an award-winning company with a historic past and a strong future. Viktor and Nicola Lemken are the sixth and seventh generation of the family to lead the company, which started out as a blacksmith shop in 1780. Long before the first tractors arrived on the scene LEMKEN was building ploughs that made farmers more productive and was the first company ever to patent a reversible plough design in 1925.

Founder, Wilhemus Lemken, would be proud that the company he founded now occupies a state-of-the-art facility in Alpen, Germany with 1,300 employees worldwide. We’re proud of our reputation for innovation and quality. We support it with creative design, advanced engineering and modern production techniques that employ the latest in computer-assisted technology, robotic welding, automated steel forming and tempering systems.

LEMKEN provides farmers around the world with innovative, one-pass tillage equipment that meets their strategic tillage needs and provides them with sound agronomic benefits and increased efficiency.

LEMKEN truly is the Agrovision Company. We invest heavily in research, development, and manufacturing technology. We believe in responsible, sustainable growth for our company and our customers, which means a strong focus on service, and a commitment to never let our customers down.

LEMKEN in Canada

Eleven years ago, LEMKEN and our Canadian distributors brought its innovative, one-pass tillage machines to Canada. Since then, we have developed an extensive dealer network which stocks original LEMKEN parts. LEMKEN dealers receive intensive, ongoing product training so they can provide outstanding service and technical support to their customers.

LEMKEN also has two fully-stocked parts warehouses in Canada to ensure that its Canadian customers, dealers and distributors always have fast, easy access to parts and service. LEMKEN has listened to Canadian farmers from coast to coast. We have developed new products and adapted our product range to meet their strategic tillage needs.
At LEMKEN we pride ourselves on our knowledge of the science and evolution of tillage. Since plough maker Wilhemus Lemken founded the company over 230 years ago, we have seen the agronomic practice of tillage move from conventional, primary tillage in the 1940’s and 1950’s, to zero and minimal tillage in the 1970’s. We know that today, farmers have many reasons to strategically incorporate tillage into their farm management as they deal with problems they would never have thought of fifty years ago.

Farmers around the world are partnering with experts who offer a variety of tools to help them plan, grow, harvest, and market their crops and remain globally competitive. LEMKEN is proud to offer innovative tillage machines with specific agronomic uses to suit the individual needs of farmers in any soil type, conditions and farming system. We don’t believe that using a plough, disc, or cultivator because that is an established agronomic practice, or part of the accepted “culture” of farming is the most effective and efficient way to look at tillage. We encourage farmers to critically assess the agronomic needs of their farm and use the right tools to do the job. We know that will often include the strategic use of tillage based on what each farmer wants to achieve.

Strategic tillage may target compaction, smooth out ruts in the field, break up pastures, or reclaim land around sloughs. Strategic tillage can mechanically kill weeds, disrupt disease and pest cycles, deal with herbicide resistant weeds, or encourage weed seeds to germinate before a pre-season herbicide application to make it more effective. Other strategic tillage practices improve soil structure and water infiltration, or incorporate organic matter – such as crop residue or livestock manure – into the soil to make the best use of the nutrients it contains.

Whatever the need or desired outcome, LEMKEN can provide farmers with the strategic tillage machine they need to do the job effectively and efficiently in a single pass.

We use the HELIODOR to work canola and wheat stubble in the fall, which provides mechanical weed control, and leaves a smooth surface behind. It cuts, chops, mixes, packs and leaves the field seedbed ready. A single pass with the HELIODOR in late fall gives us very good control of cleavers and thistle too. We used to do multiple passes with a cultivator and harrows and we still didn’t get the results we get with the HELIODOR in one pass.

**Greg Philipchuk**

…grows 7,000 acres of wheat and canola near Kamsack, Sask. with his brother Ken.
Farmers can work more acres per hour with the lightweight HELIODOR 9 compact disc harrow, which is available in working widths up to 52 feet, and can travel up to 12 mph, saving time and fuel. Farmers also have the option to attach a SOLITAIR precision air drill to some HELIODOR 9 models to prepare the seedbed and seed in one pass, cutting seeding time in half.

The HELIODOR 9’s 20-inch, concave discs are perfect for shallow spring cultivation in light to medium soils, fall stubble cultivation, preparation for seeding winter cereals, preparing a seedbed in spring on heavy ploughed land, or for reworking areas around sloughs, previously wet areas in a field, or removing sprayer ruts after a wet season.

The intensive disc action of the HELIODOR 9:

- provides superior soil crumbling and mixing to ensure consistent soil density and quality.
- disturbs very little soil while allowing oxygen and water to penetrate for strong root development and healthy plant growth.
- incorporates crop residue and creates a smooth, seed-ready seedbed in one pass.

Working from shallower depths of one to four inches, the HELIODOR 9:

- warms soil surface for faster, earlier germination and frost protection.
- repacks soil with a choice of packing rollers to seal in moisture, prevent erosion and prepare a perfect seedbed.
- paired with the SOLITAIR seeder, provides maximum soil to seed contact, and ensures moisture is accessible to the seed for better emergence and higher yields.
- encourages germination of weeds, and volunteers in fall to be winterkilled.
- requires less horsepower to pull and saves on fuel.
Residue management and perfect seedbed preparation with a single pass are major reasons why a growing number of Canadian farmers have turned to the RUBIN 9 compact disc harrow. The RUBIN 9’s 24-inch, serrated discs effortlessly incorporate any type of crop residue or livestock manure. Packing rollers follow the discs and repack the soil to seal in moisture, prevent soil erosion from wind, and create a firm, seed-ready seedbed in any type of soil. One-pass tillage and seedbed preparation saves time, fuel, and manpower.

On the soil surface, the RUBIN 9’s intensive disc action:

- breaks up clods of dirt and thoroughly incorporates organic matter into the soil to cycle nutrients faster.
- buries trash reducing the risk of fungal diseases or pests persisting in crop residue.
- combines with two sets of rebound harrows for superior crumbling and mixing of the soil for consistent soil texture.
- mechanically controls weeds on organic farms or manages herbicide resistant weeds in conventional farming systems.
- warms up cold spring soils for faster germination and frost protection.

Beneath the soil, its variable working depths from two to six inches:

- provides consistent soil density allowing plant roots to easily access nutrients and water.
- breaks up hardpan which impedes plant root development.
- helps prevent soil compaction by performing multiple operations in a single pass.

We had fields with foxtail barley that we couldn’t control with herbicides and the RUBIN 9 gave us 95 per cent control of the weed problem the first time we used it. We have switched our whole farm from zero-till to Strategic Tillage because we are seeing soil health benefits. The superior mixing action of the RUBIN 9 aerates, mulches residue, and returns organic matter to the soil, and that’s giving us more uniform, productive stands, even in problem soil areas, and during wet years.

Chris Raupers
...farms 7,000 acres of grain land at Newdale, Man.
The RUBIN 12 compact disc harrow was designed to handle large volumes of crop residue from the highest yielding corn crops in North America. The RUBIN 12’s 29-inch, concave discs work deeper to incorporate heavy residue and create a smooth seedbed that’s ready to go with a single pass.

The RUBIN 12 can do many of the tough tillage jobs where farmers have traditionally used disc-rippers or disc-chisels, and reduce the amount of passes required in the field. The RUBIN 12’s serrated discs are angled to cut deep and break up compacted soils, without bringing subsoil or stones to the surface.

The RUBIN 12’s aggressive disc action:

- easily breaks up pastures or unproductive land.
- incorporates organic matter deep to hasten decomposition and nutrient release into the soil.
- intensively mixes soil to ensure excellent soil to organic matter contact for faster, even decomposition.
- alleviates soil compaction for higher crop yields.

Working at depths from three to eight inches, the RUBIN 12:

- warms cold, spring soils for earlier emergence.
- saves fuel, time and manpower with a one-pass operation.
- offers a choice of heavier packing rollers to repack soil for a seed-ready finish.
- provides better seeding efficiency due to consistent, high quality seedbed preparation.
The KARAT multi-purpose cultivator gives farmers many options to till at different depths depending on the job they need to do. Its strategic uses include light to heavy stubble cultivation, repairing soil structure, controlling weeds and volunteers, and incorporating manure. Farmers can also choose the lighter, KRISTALL compact cultivator which also offers intensive soil mixing and optimal soil preparation.

The KARAT replaces the chisel or mouldboard plough for many fall and spring field operations, which the KARAT can achieve with a single pass to save on fuel and manpower. The KARAT prepares a perfect seedbed, firming and levelling the soil with packing rollers to prevent soil erosion, seal in moisture, and ensure strong root development. Potato growers tell us they have noticed more intense germination, and bigger potato tops resulting in higher yields when they have used the KARAT on their fields.

The agronomic benefits the KARAT cultivator provides include:

- variable working depths from two to 14 inches.
- greater soil to seed contact for earlier and even crop emergence.
- aggressive action which incorporates and thoroughly mixes organic matter into soil to speed up decomposition and release nutrients for crops to use.

My 800 acre farm is irrigated because I am pushing for the highest possible yields, so I always have a lot of residue to deal with. I was using a disc ripper but it never left a flat surface for the next crop. That’s why I bought a KARAT, because it does the four things I need to do in one pass – ripping the field, perfectly mixing the topsoil and heavy residue, levelling it and then packing it to a firm, even seedbed.

Because the topsoil is loose, mixed and packed over the whole width of the machine, I don’t get furrows like I used to with the disc ripper, and my crops are more even.

Frans Pot
… farms 800 acres of wheat, hybrid seed canola and dry edible beans at Bow Island, Alta.

The KARAT offers seven different, quick-change tine shapes that can be changed without tools to save farmers time and effort, and produce superior results with less power requirement in any soil type or situation.
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