Our culture is closely linked with the development of meadows and pastures. Forage is, and always has been, the basis for survival for human beings and animals. Grassland makes an important contribution to the feeding of healthy, productive livestock. High milk yield requires the best quality forage. Pötinger supports the principles of high quality forage with advanced technology.

The starting point for high forage quality is the careful mowing process. Best possible ground hugging, low disintegration losses and precise operation without time-consuming operator intervention are the justifiable demands made from the field. Engineering details and functions on machines contribute significantly to harvesting quality forage. First-class cutting quality, low drag resistance and high stability have given the new generation of NOVACAT mowers a boost. Quality for many years of service.

"Learn something new and take new steps to encourage development"

Karin Heinrich
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Cutter bar – the precision cut

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disc mowers with side suspension

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Imprint
The cutter bar

The knife quick-change system is standard on all Pöttinger mowers. A spring clip engages with the knife pin to press the knife securely against the mower disc. The solid hold ensures safety. The knife mounting pin is bolted onto the disc and can be replaced cheaply if required. The bolt is recessed to protect it against corrosion and dirt.

Knife quick-change system – it’s this easy:

Press the spring clip downwards with the knife key. Remove the knife and insert the replacement. The knife is held safely in place by the heavy-duty spring clip.

Longer, harder operation demands the best quality knives. Pöttinger knives are made from high-quality knife steel. Due to their optimised shape the knives glide over each other in the overlap as they counter-rotate. It is easy to change the knives quickly using the quick-change system.
The heart of the new generation of disc-type mowers is the cutter bar. Pöttinger based its development on drum-type mowers technology. The increased paddle-action of the drum mower has been integrated in the disc cutter bar technology.

Best crop flow

Contamination-free pickup and transfer of the crop are important criteria in mower technology for the careful processing of forage. The contoured shape of the conical mower discs increases the effect of the paddles on crop flow, lowering the drag resistance of the mower. Streamlined mower discs. Forage flows through the mower easily and uniformly. Tractor power requirement is lower as a result; dynamic crop flow means the mower is operating at peak efficiency all the time.

Optimised counter chop area. The slanted leading edge of the cutter bar allows the earth to flow beneath, separating it from the crop. There is a minimal gap between the upper edge of the cutter bar and the counter-rotating knives. This means that even heavy, flattened crop, or dry unfertilised grass can be cut to the highest quality.

Tidy and uniform cut due to optimised overlap of knife paths.

The sward is protected through the design of the smooth underside of the cutter bar, rounded skids at both ends and no sharp edges.
Assembly and transmission

Maintenance – unrestricted access

Straightforward maintenance is possible due to modular construction: bevel gears and bearings can be removed as a single unit, idler gears are also easy to remove through the large openings. It doesn’t come any easier.
Years of experience, consistent trials and field testing paved the way for the development of the new cutter bar. Well thought-out details, high quality materials and high-tech manufacturing techniques underline its uniqueness.

**Designed for years of reliability**

**Hardened mower discs**
The oval, smooth mower discs are made of hardened fine-grained steel for extra long service. The sleek construction ensures power-saving crop flow.

**Rotor shaft**
The rotor shaft is bolted to the gear wheels. Each shaft can therefore be replaced economically if necessary.

**Seal**
The bearing flange and fittings are tightly sealed with a rubber O-ring seal.

**Bearings**
Heavy-duty, twin race angular contact bearings with a theoretical bearing spacing of 2.36’ / 60 mm guarantee the best absorption of impacts – similar to a car axle.

**Gear wheels**
The bevel gears are arranged in a straight line and the disc gear wheels and idler gears are almost the same size (44 and 35 teeth). The bearing is subjected to less stress with an idler gear on either side. All gear wheels are hardened and ground for smooth running and a long service life.
The teeth are 0.79’ / 20 mm wide and there are always two teeth in contact.

**Highest quality materials**
Welded, inside shoe-free cutter bar made of best quality steel. Precision milled on CNC-controlled machining centre.

**Skids**
The wide skids are made from hardened boron steel to resist impact and prevent a build-up of earth. Standard equipment with Pöttinger of course. The skids are bolted making them easy to replace when worn.
Additional wear skids can be mounted if necessary.

**High cut large radius skids**
High cut skids are also available to raise the cutting height to between 1.97’ and 3.15’ / 50 and 80 mm. The easy-to-fit high cut skids feature a large radius and wide contact area to reduce wear.
Paddle drums at either end provide best swath placement and tidy crop flow, even on a slope. An interesting feature is available on the large area coverage NOVADISC 400 mower to allow the swath to be divided, or placed over the whole width. The swath is divided by two paddle drums. This enables tractor to drive along a cleared track instead of over the crop.
Machines determine the quality of a forage crop. Clean cut, protecting the sward and high productivity are critical factors. With the new NOVADISC mower the grassland specialist Pöttinger has developed a new product that will lift the mowing technology market. This lightweight mower is smooth-running and tuned for high performance.

Hitching and detaching
The mower is equipped with adjustable mounting pins so it can be adapted to any type of tractor. 3-point, rear-mounting Cat. II. The headstock can be set for larger, wider tractors or dual sets of wheels.

Counter springs – ground care mowing
The pressure on the ground can be adjusted steplessly by changing the mounting height above the tractor hitch. The optimised position of the countersprings guarantees best possible weight alleviation of the cutter bar. A uniform pressure is maintained even in extreme operating conditions such as on embankments (up to 45° upwards or 30° downwards). In addition there is an adjustable spring on the boom for unique overall weight alleviation (except on NOVADISC 400).

Breakaway system – convenient and reliable
This system is fitted as standard and features a mechanical breakaway device that unlatches on impact and engages again when the rig is reversed. Protection and comfort hand-in-hand.

Transmission – no inside shoe
The mower’s most noticeable feature is the lightweight cutter bar without an inside shoe. The cutter bar transmission is located behind the first mower disc. This enables the mower to get in and out of tight corners, and operate on rough ground, without clogging. Powerful drive belts ensure smooth running.

Mounting
A solid welded design for high loading capacity.
Mowing without leaving the tractor cab really is possible with NOVADISC mowers. All functions can be controlled from the tractor seat.

Working position – DISC lifting system

The tractor hitch does not need to be operated for lifting the mower at headlands. As a result no readjustment is required after lowering. Simply move the remote to the set height.

The mower is lowered so that the outside contacts the ground slightly before the inside to protect the sward.

Transport position – safety first

The cutter bar is raised using single-acting hydraulics so that the tractor hitch does not need to be operated. The cutter bar is locked in place hydraulically. The mower is released by lanyard.

Low transport clearance is possible thanks to the low-slung cutter bar pivot axle.

Safety guards – easy maintenance access

The guard curtains are reinforced with fabric and are extremely resistant to tearing. The front guard can be raised for accessing the quick-change knives, and the side guards for reducing the transport height.

On NOVADISC 400 mowers the cutter bar hinges over the tractor centreline. This improves weight distribution and reduces the transport height to 13.06” / 3.98 metres. A second, single-acting cylinder returns the mower to the working position.
NOVADISC 730/900
"Make two out of one" is the motto in the development of the new NOVADISC combination for large areas. With two NOVADISC bars in combination with a front mower the working width is either 23’9” / 7.24 m or 29’3” / 8.92 m. The lightweight mowers without conditioner units can be drawn by tractors of only 85 or 100 hp.

An important feature is the **cutter bar with no inside shoe**. The cutter bar transmission is behind the first mower disc. This means no problems full mowing or smaller patches of ground and troublesome clogging is avoided.

Consideration has also been given to collisions with obstacles. The mechanical impact protection on both sides means a swivel angle of approx. 12°. The system unlatches on impact and then when the rig is reversed a short distance the cutter bar engages again.

The excellent cut is also a trademark of the Pöttinger disc mower. The high quality cut is based on the **optimised blade overlap area**.

**Transport and parking**

Lifting is carried out via a simple control unit. **Parallel or single lifting** can be selected via a **three-way valve** (2 valves).

Transport width: 9.35’ / 2.85 m.

**Additional parking stands** are available to save space when stowed away. Parking height 730: 9.5’ / 2.90 m and 900: 12.14’ / 3.70 m.
## Technical data and Equipements

### NOVADISC

<table>
<thead>
<tr>
<th>NOVADISC</th>
<th>Working width ft / m</th>
<th>Discs</th>
<th>Coverage acres/h / ha/h</th>
<th>Swath width ft / m</th>
<th>Min. tractor power kW/hp</th>
<th>Weight lb / kg</th>
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<td>6.4 / 2.6</td>
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### NOVADISC – mower combinations

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<tr>
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<th>Working width ft / m</th>
<th>Discs</th>
<th>Coverage acres/h / ha/h</th>
<th>Min. tractor power kW/hp</th>
<th>Weight lb / kg</th>
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![Diagram of NOVADISC setup](image-url)
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All data not binding, features may vary from country to country.
Quality for the future

Machines with the cloverleaf mark are internationally successful with reliable quality and service.

Cathodic electrodip priming and powder coating – automobile paint quality

Laser cutting machines for high-precision panel forming

New durability centre for expendable parts

The latest 3D construction

Future-safe component part testing – at the new Grieskirchen Technology and Innovation Centre, the most demanding working conditions are simulated and maximum limits are determined

Pöttinger original expendable parts offer added value at a glance: High durability, precise fitting accuracy and constant availability.

Product delivery – Every Pöttinger customer has a right to the orderly delivery of the product by their Pöttinger sales agent, in order to ensure the guarantee.