

Professional  
technology  
for steep  
slopes

 **KRONE**

# HIGHLAND

*Your experience – our expertise*

*Your requirements – our mission*

*Your hills – our challenge*





**Climbing to the top of a mountain requires strength, stamina and the right tools. Having the right equipment at your side gives you the feeling that you can reach the summit more easily and with less effort.**





# Your professional equipment for gentle, energy-saving work on slopes



Strength and endurance are the keys to success, and agriculture is no exception. Your farming success is based on machine power that is used efficiently, sustainably and economically to produce an optimum base ration for feedings to your animals.

## HIGHLAND

*The best equipment for best results.*



# KRONE Highland

...because you deserve a KRONE!

Sward protection according to conditions and optimum nutrient levels are important factors in the production of high-quality forage. Equally important for your success is having the proper forage equipment.

**A harvest chain where every machine – from mower to harvester – links up perfectly with all others makes all the difference in the production of palatable and nutritious forage feed.**

KRONE technology is focused on the provision of the **highest-quality forage for our animals**. This has been the driving force behind the design of the KRONE Highland machines.

The Highland models are **specifically designed for performing in the challenging conditions of hilly and mountainous regions** around the world. Featuring a rugged and yet light-pulling design, the KRONE Highland range makes a substantial contribution to saving resources and sustainable forage harvesting.

Our contribution to your (harvest) success is to give you the equipment that is necessary for producing clean, palatable and nutritious feeds and helping you make the most of those narrow harvest windows.



The Highland  
product range  
for your steep slopes:



EasyCut F 280 Highland



EasyCut F 320 Highland

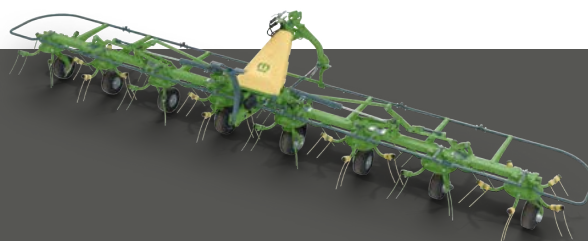


Vendro 420 Highland

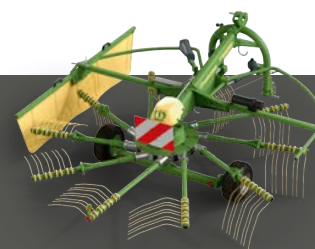




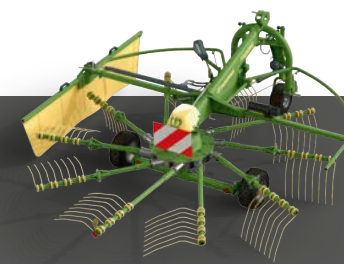
**Vendro 620 Highland**



**Vendro 820 Highland**



**Swadro S 350 Highland**



**Swadro S 380 Highland**



Compact attachment paired with a low centre of gravity and hydraulic sideshift as well as KRONE SmartCut are features for the best working quality on steep slopes.





# EasyCut F Highland front mowers

The mowers for safe and clean cuts on slopes



## Clean and palatable forage starts with the mower.

It is the low centre of gravity and the close attachment to the tractor that make the Highland mowers excellent performers on the slope. To counteract drift, the machine weight is shifted to the tractor either by the **mountain tractor's linkage rams** or by means of optional suspension springs.

**Integrated in the headstock and conveniently controlled from the cab**, the hydraulic sideshift feature on the front mower counteracts tractor drift. This design combines with the SmartCut cutterbar for grouping the material into narrow swaths that are straddled by the tractor. This guarantees that the moist crops are **deposited in an aerated and loose manner** on the sward.

The main drive sits in one of eight positions for ideal adaption to different tractors including compact mountain tractors. The compact headstock without a Weiste triangle ensures the **best all-round view of the mower**. This way, the operator enjoys full visibility to avoid obstacles easily and swiftly both in the field and on public roads.

The folding side guards ensure compact **transport dimensions of less than 3.00 m**. On request, the side guard cloths can be folded hydraulically from the tractor seat, saving time when changing fields. When folded back, retainers move automatically into position securing the curtains from billowing in swift road travel.

This and the optional light package ensure **safe road transport** even in poor visibility conditions.

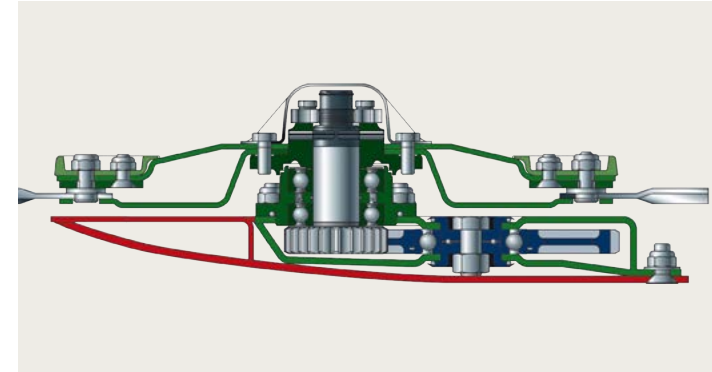
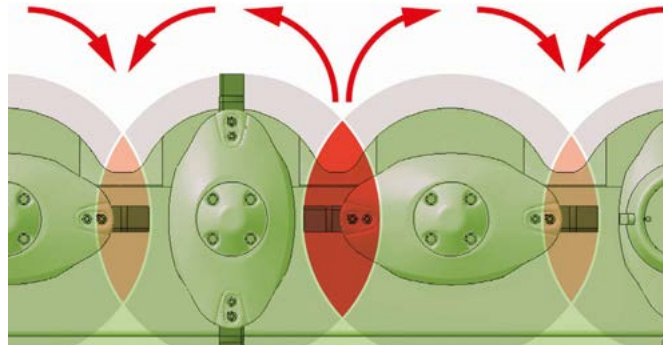
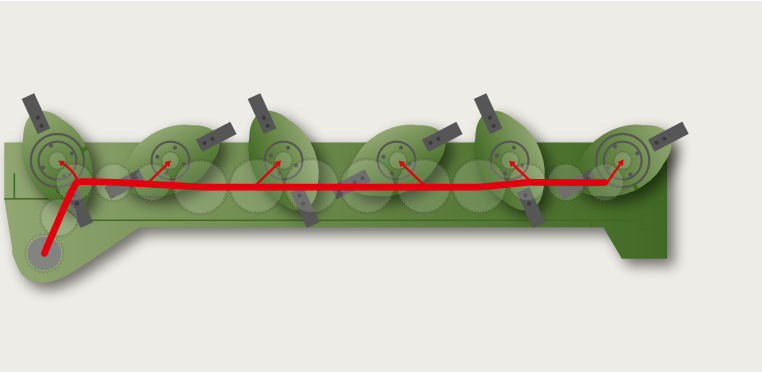
# HIGHLAND

*... because the quality of your forage is all that counts.*



# EasyCut F Highland front mowers

The smart way of cutting the best forage



## Efficient and safe uphill work

The **fully welded and permanently lubricated SmartCut cutterbar** has been the benchmark in terms of **cutting quality** and **reliability** for years.

The massive and **fuel efficient** satellite gears rotate at a low rpm for an efficient, dependable and yet wear-free transmission of the drive power all the way down to the very last disc. Each gear drives a smaller spur gear which in turn drives only one single disc – an arrangement **that ensures an optimum and smoothest power flow**.

The skid is formed like a **water ski for excellent climbing** on steep slopes. Hovering over the sward, the mower has only a minimum power requirement when working uphill, **saving fuel** and **ensuring the tractor still draws on power reserves** for steep slopes.

The **cut itself is accurate and uniform**, thanks to the SmartCut cutterbar which prepares perfectly for the following machines and is the basis for successful cuts later in the season.

The standard **SafeCut disc protection system** protects your mower from damage when it hits a rock or other foreign body and makes for a straightforward repair. In addition, the **blades are quick-change as standard**, a fact that minimises downtime and ensures maximum efficiency and uptime when the harvest conditions are just right.

# HIGHLAND

*... where reliability is designed into every detail.*

KRONE Highland







The KRONE OptiTurn rotor concept, including 3D effect, quadruple spreading angle adjustment and maximum operator comfort, ensures optimum forage conditioning.





# Vendro Highland rotary tedders

The 3D effect for optimum conditioning



## Getting the timing right with the proper rotor

The new KRONE OptiTurn rotor with 3D tines is the key for **clean and efficiently conditioned forage**. Featuring a curved and patented design and working close to the rotor gauge wheel, these tines pick up the material **cleanly and uniformly across the full work width**. The intensity of conditioning is changed according to conditions and crops without the use of tools and by just setting the spreading angle to one of four positions. This makes the KRONE Vendro an **effective dual-purpose machine**.

This **KRONE rotary tedder cuts down the number of hours the crop spends drying**, giving you enough time to clear the field before the rain.

Changeovers to border spreading are made by adjusting the gauge wheels under the rotors from the **convenience of the cab**. The hydraulic border spreading feature offers infinitely variable spreading widths also in uphill work. Stable tracking without drifting is achieved by hydraulic damper braces in combination with gauge wheels being fixed by the border spreading linkage. This is the secret behind uniform and accurate spreads, even on the steepest of slopes.

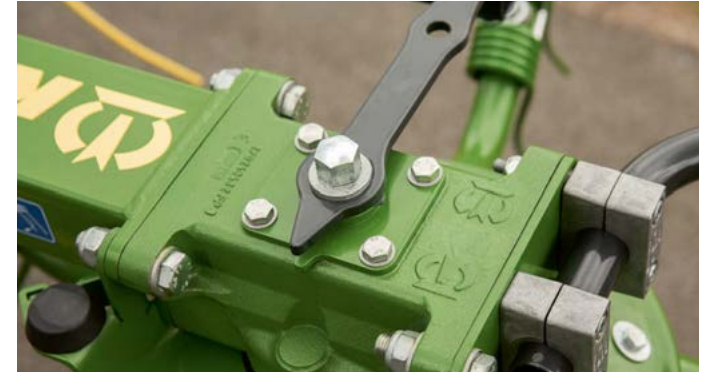
# HIGHLAND

*... make the most of narrow harvest windows.*



# Vendro Highland rotary tedders

The efficient drive concept for challenging slopes.



## Reliable operation throughout long working days

The Vendro Highland tedder boasts all the tried and tested components from the KRONE drive arsenal that deliver **maximum reliability and minimal tractor power requirement**.

Made from box section beams, the machine combines **stability and longevity with optimum contouring**. The pivot points between the beam sections have two bearings for **exact rotor contouring**. The box section arms are sturdy, torsion-free and withstand the highest loads.

The rotor gearboxes on the KRONE Highland generation are made from proven components that are sourced from our high-capacity tedders. The **weight-optimised gearboxes** are filled with semi-fluid grease for optimum performance in all conditions.

At the same time, the rotor gearboxes stand for **optimum performance** and fuel efficiency. Their low input requirement leave the tractor enough power in reserve to manage the steep slopes.

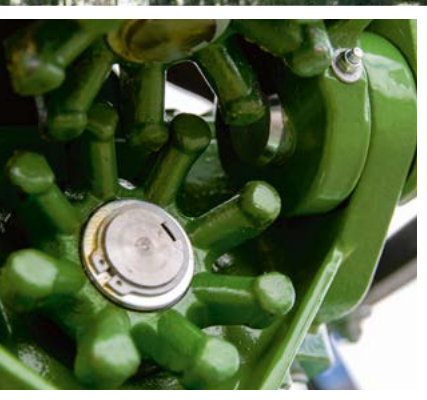
**KRONE OctoLink eight-finger clutches ensure a smooth and consistent power flow** on any slope. On top of this, they are absolutely maintenance-free and hard-wearing in any position. **Not only is their 190° working range unrivalled in the market**, but also the **large contact faces of the interlocking finger elements**. Especially in very undulating terrain where every rotor is following a different undulation, Vendro Highland proves to be a very dependable and reliable partner in forage harvesting on steep slopes.

# HIGHLAND

*.... where proven experience meets innovation.*

KRONE Highland











# Vendro Highland rotary tedders

Surprising facility and agility



## Convenient attachment combines with maximum climbing power

The **KRONE Smart Climbing** headstock with the patented centre of gravity shifting system (KRONE SCA) makes **climbing a doddle** for the tractor. When attached in the hole nearest the tractor, the mower forms a longer combination with the tractor with maximum space between the two machines for managing **tight turns and curves** even for tractors on large wheels.

When attached in the hole farthest from the tractor, the machine runs very closely behind the tractor, shifting up to 20% more weight than any other attachment system to the front axle – an achievement of the KRONE Smart Climbing system. Thanks to this **patented system**, the **KRONE Vendro Highland tedders offer maximum climbing on steep slopes** without compromising on stability and longevity.

The dynamic stands allow users **to park the machine securely and fast** on two stands, the rear of which is flexible.

This concept shifts all weight away from the rotor wheels in the middle and the leading damper struts, so these are **not strained in park position**. In addition, the rear stand compensates for the in/out strokes of the front damper rods. This technology takes the shunting out of machine attachment and removal, saving time in narrow harvest windows.

# HIGHLAND

*... because agility on the slope is not a question of weight.*



Combining a large work width with small diameter rotors, KRONE sets a new benchmark for area output and quality of work.





# Vendro 820 Highland rotary tedders

Some scenarios call for size



## Work width alone doesn't make the difference

The KRONE Vendro 820 Highland is the first **eight-rotor tedder that was specifically designed for hilly conditions**. Built from components that are sourced from our high-capacity machines and designed for light weight, the Highland tedder is not only **the widest tedder in this segment** but also delivers **enormous work rates on steep slopes** without compromising on the quality of the forage.

Vendro 820 Highland combines tried and tested components with compact machine dimensions for optimum performance on slopes – **an absolute must-have for efficient forage conditioning in your conditions**.

Efficiency in forage conditioning is not boosted by increasing the forward **speed** but by **increasing the work width**. Offering a large 8.20m work width and small-diameter rotors, Vendro delivers optimum work rates and contouring for **best results in conditioning and forage quality**.

# HIGHLAND

*... making large work widths more efficient.*



**KRONE Lift Tines, DuraMax cam track and stepless height control – the powerful three for perfect swath presentation.**





# Swadro S Highland rotary rake

The Lift Effect – clean and boxy swaths



## The Lift Effect for maximum harvesting efficiency

Boxy and uniform swaths are essential for the productivity of the following harvester – the round baler or forager. The steep and extremely small-diameter **KRONE DuraMax cam track** ensures the tine arms and tines run at high speed and fully controlled, **picking up the grass cleanly** and **raking it into accurate and boxy swaths**. All components – the cam track, the rotor gearboxes, the tine arms and tines – are absolutely **maintenance-free**, yielding valuable time in narrow harvest windows.

**The Lift Effect is obtained from tines whose shafts are kinked in two places and which lift the blades clear off the ground without losses – raking the grass into clean and tidy swaths.**

The new **KRONE SmartClimbing headstock** is specifically designed for attachment to compact and mountain tractors. **Offering two coupling options, this type of attachment moves the Swadro S Highland closer to the tractor** – a patented design that takes less load off the front axle for maximum gradeability on steep slopes also in swathing.

# HIGHLAND

*... where work height is a matter of design.*



# Swadro S Highland rotary rake

Convenient and fast travel between fields



## High operator comfort combines with flexible setting options

The KRONE Swadro Highland rakes score not only in terms of ha/h performance and swath formation but also in terms of operator comfort.

**The foldable tine arms** translate into fast and easy changeovers. Their gap-free and hard-wearing foldback mechanism makes field changes an absolute doddle. On arrival in the field, you simply **fold out the arms and secure them in position – which is a matter of seconds** and consigns time-consuming removal and attachment to the past.

**Another unique feature is the electric rotor height control on the Swadro Highland**, which offers convenient and fast **height control from the cab (option) for easy adjustment to varying field conditions**. This way, you can respond effectively and quickly to varying conditions.

More operator comfort comes from the **optional hydraulic swath deflector control** on the Swadro which operates a hydraulic spool that lowers the curtain into work and telescopes it to the required swathing width. Afterwards the curtain retracts and **moves into transport position in one operation**.

# HIGHLAND

*.... where proven experience meets innovation.*

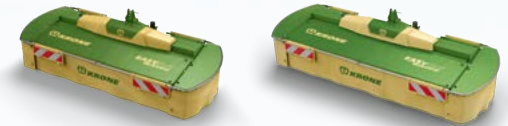
KRONE Highland







# Technical data



		EasyCut F 280 Highland	EasyCut F 320 Highland
Attachment configuration		Pushed (cat. I/II)	Pushed (cat. I/II)
Working width	approx. m	2.73 (8'12")	3.16 (10'4")
Transport width	approx. m	2.59 (8'5")	2.99 (9'10")
Input power	approx. kW/hp	from 40kW/55hp	from 48kW/65hp
Acreage output	ha/h	3.0 - 3.5 (7.4-8.6 acres/h)	3.5 - 4.0 (8.6-9.9 acres/h)
No. of discs		4	5
No. of top hats		2	2
Hydr. sideshift on left/right sideshift (per side)	cm	Standard 30(15)	Standard 30(15)
Hydraulic couplers		1 da	1 da
PTO speed (reversing gearbox)	rpm	1000 (540)	1000 (540)
Driveshaft sense of rotation		Clockwise (counter-clockwise)	Clockwise (counter-clockwise)

# HIGHLAND

*Professional mowers, tedders and rakes for mountainous fields*





		Vendro 420 Highland	Vendro 620 Highland	Vendro 820 Highland
<b>Attachment configuration</b>		Three-point (cat. II)	Three-point (cat. II)	Three-point (cat. II)
<b>Working width</b>	approx. m	4.20 (13'9")	6.20 (20'4")	8.20 (26'11")
<b>Transport width</b>	m	2.45 (8'1")	2.58 (8'6")	2.78 (9'2")
<b>Rotor diameter</b>	m	1.38 (4'6")	1.38 (4'6")	1.38 (4'6")
<b>Input power</b>	approx. kW/hp	25 / 34	37 / 50	48 / 65
<b>Acreage output</b>	ha/h	4.2 (10.4 acres/h)	6.2 (15.3 acres/h)	8.2 (20.3 acres/h)
<b>No. of rotors</b>		4	6	8
<b>No. of tine arms per rotor</b>		5	5	5
<b>Tyres on rotor wheels</b>		15x6.00-6	15x6.00-6	15x6.00-6 16x6.50-8 (middle)
<b>Border spreading control</b>		Mechanical*	Mechanical	Mechanical
<b>Headland position</b>		Option	Standard	Option
<b>Hydr. damper braces</b>		Standard	Standard	Standard
<b>Hydraulic couplers</b>		1 sa	1 sa	1 da
<b>Spreading angle</b>		13° - 19°	13° - 19°	13° - 19°

\* hydraulic option available



		Swadro S 350 Highland	Swadro S 380 Highland
<b>Attachment configuration</b>		Three-point (cat. II)	Three-point (cat. II)
<b>Working width</b>	approx. m	3.50 (11'6")	3.80 (12'6")
<b>Transport width (tines folded in/out)</b>	m	1.85 / 2.99	1.85 / 2.99
<b>Rotor diameter</b>	m	2.70 (8'10")	2.96 (9'9")
<b>Input power</b>	approx. kW/hp	22 / 30	22 / 30
<b>Acreage output</b>	ha/h	3.5 (8.6 acres/h)	3.5 - 4 (8.6-9.9 acres/h)
<b>Total no. of tine arms</b>		10	10
<b>No. of rigid/foldable tine arms</b>		5/5	5/5
<b>No. of Lift Tines per arm</b>		4	4
<b>Tine length / diameter</b>	mm	510 / 9	510 / 9
<b>Rotor chassis</b>		Two-wheel (standard) Four-wheel (option)	Two-wheel (standard) Four-wheel (option)
<b>Rotor tyres</b>		16x6.50-8	16x6.50-8
<b>Damper brace control</b>		Hydraulic	Hydraulic
<b>Leading gauge wheel</b>		Option	Option
<b>Electr. rotor height control</b>		Option	Option





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