

# Choppers for all needs and working conditions



# Kverneland Chopper

Versatile, Reliable, Efficient!



Chopper FRO - Front, Rear, Offset.  
For chopping grass, pasture, set-aside  
land and stubble.

### Choppers for all conditions

The hallmark of Kverneland grass and straw choppers is their ability to cope with whatever is required. Whatever the size, every model is built for a variety of different tasks.

However, all models are solidly constructed throughout with a robust gearbox and very strong power transmission to the "V" belts driving the shafts.

In addition, they have a strengthened chassis with double plating in the areas subjected to highest stress.

The combination with Kverneland's precisely manufactured rotor shafts and hard wearing blades makes them extremely reliable. Minimal maintenance is required.

### Model

**FM**  
**FHS**  
**FHP**  
**FHPplus**  
**FRO**  
**FRH**  
**FRD**  
**FXN**  
**FXZ**

### Page

**4**  
**6**  
**8**  
**10**  
**12**  
**14**  
**16**  
**18**  
**20**



# Kverneland Chopper FM

## The Specialist for Green Areas



The Kverneland FM grass chopper is a small, medium duty machine for use on slightly rough ground and other green areas, in amenity areas, for tidying up pasture and in similar situations.

It is available in 4 models from 0.90m working width to 1.80m. The FM is very easy to operate and requires minimum maintenance.

As well as the universal blades fitted as standard, blades for stony conditions and cup blades can be fitted on request.

The FM is suitable for tractors up to 50hp.



The core of the FM chopper is the rotor: high rotation speed (1993rpm) in combination with a huge number of working tools make the FM a unique chopper.

As standard the FM offers a mechanical offset: the headstock can be fitted in the centre or on the left side of the chopping unit.

The FM is equipped as standard with a rear roller which allows the reliable control of the working depth. Alternatively a pair of skids can be supplied on demand.

Kverneland FM - the correct choice for green areas.



## Kverneland FM: The main arguments

- For tractors up to 50hp
- Small to medium machine
- Versatile for use on slightly rough ground and other green areas, in amenity areas, for tidying up pasture and similar conditions
- Easy to operate
- Minimal maintenance
- Wide choice of blades

# Kverneland Chopper FHS

## Efficient and Durable!



The Kverneland FHS Chopper is a compact and heavy duty machine for moderately demanding jobs in soft and top fruit orchards, vineyards and light undergrowth. It is equally perfect for tidying pasture and other grass fields, and chopping straw and stubble after combine harvesting.

Due to its solid construction the FHS ensures a long lifetime with minimal maintenance.

Offset as standard (500mm) increases the versatility of this chopper and caters for safer working conditions. In addition the standard roller and the skids support the chopper in keeping a constant working depth.

The design of the FHS is modern and versatile; the latest generation rotor can

be equipped with different types of blades, making the machine adaptable in most conditions.

Highest rotor speeds (2243rpm) in combination with the counterknife and the double skin, guarantee an excellent shredding effect with minimal power requirement.

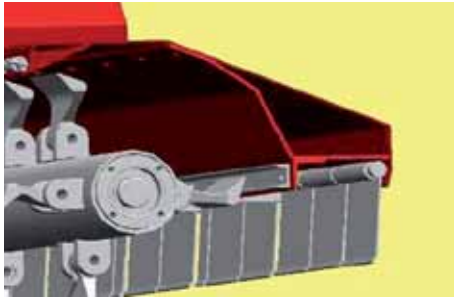
For tractors up to 80hp.



Special nylon plate fitted into sliding guide rail ensures smooth movements without the need for lubrication or maintenance.



The Kverneland FHS can be equipped with rake tines to improve chopping on prunings.



Double skin as standard equipment as it is an integral part of the frame. Standard thickness of 4mm.



The rear roller is standard equipment, its diameter is 160mm. Adjustable scraper ensure a correct field performance.



Gearbox up to 80hp - PTO speed drive 540 rpm. Protected by integrated free-wheel.



### Kverneland FHS: The main arguments

- For tractors up to 80hp
- Compact heavy duty machine
- Versatile for use in soft and top fruit orchards, vineyards and light undergrowth
- It is equally at home tidying pasture and other grass fields and chopping straw and stubble after combine harvesting
- Solid construction for long life
- Minimal maintenance
- Wide choice of blades
- Sideways adjustment to manoeuvre around or under trees and bushes

# Kverneland Chopper FHP

## Very efficient in all conditions



The Kverneland FHP is a new multipurpose chopper for road maintenance, clearing out field edges, ditches and hedges. In addition the FHP shows versatility in operation on grass, light wood and bushes thus being ideal for the maintenance of parks, gardens and road sides.

As the request for professional shredding equipment is increasing, Kverneland renewed two choppers and introduced two more during the last three years. The Kverneland FHP is the latest development. It is based on the well-known and appreciated FHS technology, mounted on a robust articulated arm and a heavy duty headstock.

The new FHP is based on Kvernelands profound experience and expertise in choppers. Thoroughly tested in cooperation with universities, the FHP offers all features and strengths which are required by the professional user.

The Kverneland FHP combines an easy concept with strong construction for excellent field performance. That also means high comfort during operations and maximum reliability in work. Thanks to all the positive feedback of our customers, the FHP has immediately become a successful machine.







The FHP contains all positive features which already equip other Kverneland chopper models.

#### **Frame**

Solid construction, heavily protected and reinforced with double skin as standard.

#### **Rotor**

High performance rotor by huge numbers of tools (13 per meter) and high speed rotation. Standard with universal, hammer or rock blades.

#### **Transmission**

Gearbox with freewheel inside and 4 belts with automatic belts tensioner always ensure smooth and reliable power transmission to the rotor.

#### **Roller**

Diameter 195mm, self-cleaning, integrated bearing, easy adjustment of the working depth. The roller is standard equipment.



### Kverneland FHP: The main arguments

- For tractors up to 100hp
- Massive headstock, reinforced parallelogram and robust articulation
- Big working angle = very versatile in use
- Minimal maintenance
- Solid construction for long working life (double skin)
- Heavily tested in all conditions and environments
- High performance rotor (2243 rpm - 14 hammers/meter)
- Safety device as standard to prevent damages during utilization
- Self cleaning rear roller with big diameter (195mm)

# Kverneland Chopper FHPplus

## Higher offset ability for excellence performance



High versatile solution for farming and road maintenance purpose  
Due to possibility of different working angle positions, FHP plus is indispensable equipment on daily farming.  
Compact but robust allow high maneuverability and ensure high reliability during working operations.  
Compared to standard FHP chopper the plus version allow major offset ability (1255mm) and reach positions and working angle impossible to get with similar equipment.  
In addition FHP plus allow choppers combination with a front unit (FRO or FRD) so working coverage is optimize and maximize without any overlap



### Lateral transmission

The transmission is based on a gearbox with integrated freewheel (up to 150hp) and 2 lateral pulleys which drive 5 belts. An automatic belts tensioner spring loaded always ensure stable rotor transmission. It's standard supplied with double wide angle pto shaft in order to get best performances and comfort during utilization.



Robust and guarded. Main frame and parallelogram articulations designed according FEM analysis and calculations; heavily tested in Klepp laboratory to ensure reliable and safe working life. Gearbox and transmission guarded against eventual misuse during operations.

#### Kverneland FHP plus: The main arguments

- For tractors up to 150hp
- Compact heavy duty machine suggested for all purposes (farms needs, road maintenance...)
- Versatile in all conditions due to extremely efficient articulation (-65° & +90°)
- Solid construction for long life (double skin)
- Minimal maintenance requirement and low costs
- Standard rotor for a wide choice of blades
- Self-cleaning roller with big diameter (195mm)
- Oil accumulator as standard prevent damages in case of obstacle collision
- Automatic belts tensioner always ensure correct tension and no maintenance

# Kverneland Chopper FRO

## Front, Rear, Offset!



### Multi-purpose - for chopping grass, pasture, set-aside land and stubble.

The FRO is a versatile machine for use on grass, pasture, set-aside land and stubble. A strong double headstock allows mounting the machine in front or behind the tractor. Together with the hydraulic offset it gives a multi purpose versatility for nearly all conditions e.g. clearing out field edges, orchards, road edges. Available with hammer blades or universal Y blades with fan blades.

### The Hydraulic Offset

Ideal for clearing out field edges . Versatile use also for road maintenance. The precisely aligned offset frame machined after the welding process ensures a strong and reliable guidance. Greasable nylon bushes ensure a long lifetime.

### Auto-alignment

The central gearbox fitted into the headstock ensures that the pto-shaft remains straight in all working positions. Even on max. 500 mm offset the pto angle does not change. This guarantees a smooth drive, reduced wearing and a longer lifetime of the pto shaft and the whole driveline (crosses and yokes).





#### Lateral Drive

Drive by 5 V-belts type VX running on invertible pulleys which allows adaptation for 540 or 1000 rpm drive. Idler wheel with automatic tensioner spring always ensures stable and low wearing on belt drive. 2 maintenance free upper ball bearings.

#### Counter Knives and Double Skin

One standard U-counter knife. A second U-counter knife is available (optional equipment) for more intense shredding and heavy conditions. Also combinable with double skin.



#### Headstock

The heavy duty headstock is well proven and the design from the Kverneland power harrows is taken over into this chopper model. This gives a family look within the Kverneland range.

#### Driveline and Gearbox

140 hp gearbox. Gearbox stays in fixed position in the headstock, even if offset is activated. Free-wheel integrated into the gear box. Lateral drive by telescopic shaft, protected by a tube.

#### Rear roller

Standard equipment for reliable depth control in all conditions. Ø 160mm with 45mm bearing hub and greasable ball bearings. Replaceable bearing housing. Bearing Hub integrated and interchangeable via skid.



#### Rotor

A strong 219x8mm tube forms the basis. Large diameter ensures easy and precise balancing and smooth running without vibrations.



#### Wheel kit for front use

Optional equipment only for front use. Ø wheel 580mm. Pivoting wheels.

### Kverneland FRO: The main arguments

- For tractors up to 140hp
- Versatile for use; front, rear and offsetability
- Multi-purpose chopper; grass, stubble, fruit orchards, vineyards and light undergrowth
- Solid construction for long life
- Minimal maintenance
- Auto-line driveline always straight pto, even in off-set position
- Wide choice of blades
- Reliable machine for excellent work

# Kverneland Chopper FRH

## Versatile, Useful and Reliable



The Kverneland FRH is a multi-purpose machine for chopping grass, pasture, set-aside land and stubble.

By hydraulic offset the FRH gives you the possibility to clear out field edges, orchards and road edges.

Hammer blades or universal Y blades with short fan blades allow a perfect shredding quality in all conditions.

By offset the FRH can slide 52cm; it is the ideal solution for field and farm maintenances.

In addition the wide diameter of the rotor (540mm) guarantees an excellence cut with lower power requirement.

Easy and minimal maintenance make the FRH a profitable chopper.





#### Frame

Headstock designed and tested for heavy applications. Headstock with “family” look taken from the power harrow design. Sliding tube integrated in the headstock; all forces stress are concentrated on 3 points linkage. Always standard with hydraulic offset of 52cm.



#### Transmission

Central gearbox up to 160hp with an integrated free wheel as standard. PTO tractor input can be 540 or 1000rpm; by inverting the belt pulleys the FRH always keeps the same rotor rpm. 5 grooved V-belts combined with an automatic belts tensioner ensure a smooth transmission, preventing slippage in tough working conditions. No maintenance required.



#### Rotor

A strong tube 245x10mm is the basis of the rotor. Standard for universal and hammer blades.

The wide diameter of the rotor (540mm) guarantees an excellent cut with low power requirement. The counterknife and the double skin are suggested for a finer shredding result of residues and a longer working life of the frame.

The skids as well as the roller are standard equipment and help controlling the working depth during field operations.

The roller has a 245mm diameter and is self-cleaning (the tools are running very close to the roller profile - 15mm).

### Kverneland FRH: The main arguments

- For tractors up to 160hp
- Heavy construction for a reliable utilization
- Versatile rotor for perfect shredding in all conditions
- Easy operations in the field by hydraulic offset (52cm movements)
- Strongly tested in order to fulfill all farmers demands
- Minimal maintenance, reduction of maintenance costs
- Precise assembly and accurate rotor balancing
- More than 40 years experience in building choppers

# Kverneland Chopper FRD

## Versatility and Efficiency at the same time



Double headstock allow front or rear mounting of the FRD.

Headstocks with "family" look taken from well known and proven power harrow design. Sliding tube integrated in the headstock; all forces stress are concentrated on 3 points linkage.

Always standard with hydraulic offset of 52cm.





### Robuste Transmission

Central gearbox up to 160 hp with double integrated free wheel as standard PTO tractor input can be 540 or 1000rpm; by inverting belt pulleys FRD always keep same rotor rpm. 5 V-belts combined with automatic belts tensioner always ensure smooth side transmission, preventing slippage in toughest working conditions. No any maintenance is required.



### Kverneland FRD: The main arguments

- For tractors up to 160hp
- Useful for front and rear tractor mounting
- Always easy operations in the field by hydraulic offset (52cm movements)
- High performance rotor for a better quality cut
- Minimal maintenance for a low maintenance costs
- Robust frame for longer working life in all conditions
- Reliable transmission ensure performances and comfort in use

## The Chopper for Specialists



### **Great versatility in all conditions**

The FXN range comprises Kverneland's largest and toughest grass and straw choppers for heavy-duty work on set-aside land and cultivated fields. The FXN chopper is indispensable on grass fields or for chopping straw, stubble and other crop residues after harvesting, but also very useful for fruit farms clearing scrub and tidying pasture. The FXN is available in 4 working widths covering all different requests coming from farmers.

### **Unique versatility and high field performance**

The Kverneland FXN choppers offer a unique operation versatility. The high rotor speed combined with a large number of blades increases the cutting efficiency while reducing the input power required. A large number of blades reduces the amount to be cut by each blade, so the rotor revolves more easily and evenly. The rotor is manufactured precisely and is dynamically balanced after the blades

have been fitted; this leads to a smooth running without vibrations.

### **Range of accessories**

The FXN can be equipped with different blade types in order to fulfill all customers demands. The skids are included in the standard configuration, wheels or roller are optionally available. Furthermore double skin and second counterknife are optional equipments.

The hallmark of Kverneland grass and straw choppers is their ability to cope with whatever is required. Whatever the size, every model is built for a variety of different tasks.

However, all models are solidly constructed throughout with a robust gearbox and very strong power transmission to the "V" belts driving the shafts. In addition, they have a strengthened chassis with double plating in the areas subjected to highest stress.

The combination with Kverneland's precisely manufactured rotor shafts and hard wearing blades makes them extremely reliable. Minimal maintenance is required.



#### Rotor

A strong tube 245x10mm firms the basis. Standard for universal and hammer blades. The wide diameter of the rotor (650mm) guarantees an excellence cut with low power requirement.



#### Transmission

Central gearbox up to 160 hp with integrated free wheel as standard. PTO tractor input can be 540 or 1000rpm; by inverting the belt pulleys the FXN always keeps the same rotor rpm. 5 grooved V-belts combined with automatic belts tensioner ensure smooth transmission. No maintenance required.

Kverneland FXN: The main arguments

- For tractors up to 160hp
- Heavy construction for a reliable utilization
- Versatile rotor for perfect shredding in all conditions
- Easy adjustment in the field
- Strongly tested in order to fulfill all farmers demands
- Minimal maintenance, reduction of maintenance costs
- Precise assembly and accurate rotor balancing
- More than 40 years experience in building choppers

# Kverneland Chopper FXZ

## The King of the Choppers!



The Kverneland FXZ chopper is designed and tested following highest farmer's requirements in terms of performance and reliability.

The FXZ always ensures a careful work for a better quality of the residues and its easier natural decomposition.

The development of this chopper was clearly focused on huge and intensive farms; so the FXZ is ideal for very demanding and specialized contractors.

The FXZ is excellent for shredding crop residues, chopping straw, maize and sunflower stalks as well as set-aside land.





### Rotor

The same rotor can be equipped with either Y blades or hammer blades; in all configurations special fan blades lift the material up for a better shredding effect. The big diameter (760mm) guarantees an excellent cut with low power requirement.



Semi pivoting wheels (10/8.0 x 12.8 ply) as standard ensure good stability and a constant working depth of the FXZ during field operations.



Semi automatic linkage (Cat III) allow fast coupling of FXZ. In addition the floating bracket on 3rd point permit an easy control of the working depth without stressing force on the headstock.



The FXZ is always equipped with a double lateral transmission. External and centralized greasing points of the rotor ensure a quicker maintenance.

### Kverneland FXZ: The main arguments

- For tractors up to 260hp
- Heavy construction for a reliable utilization
- Versatile rotor for perfect shredding in all conditions
- Easy adjustment in the field
- High performance rotor for bigger working capacity
- Minimal maintenance
- Reduction of maintenance cost
- Precise assembly and accurate rotor balancing
- More than 40 years experience in building choppers

# Kverneland Chopper

## Technical Specifications

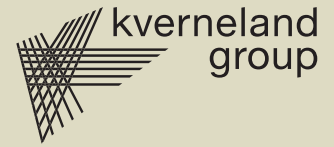
MODELS	FM				FHS				FHP			FHPplus	
Working width (cm)	90	120	150	180	155	185	200	230	155	185	200	200	230
Transport width (cm)	110	140	170	200	177	207	222	252	175	205	220	200	240
Weight (kg)	215	247	272	329	475	540	572	620	740	780	820	900	960
No. of universal blades	48	64	80	96	40	48	56	60	40	48	52	56	60
No. of hammer blades	-				20	24	28	30	20	24	26	28	30
Pto input speed (rpm)	540				540				540			540	
Min-Max. power requirement (hp)	25 - 50				35 - 80				45-90			70-130	
Rotor speed (rpm)	1993				2243				2243			1996	
Blade tip speed (m/s)	46				52				52			52	
Rotor shaft diameter (mm)	40				50				50			50	
Rotor diameter (mm)	129				170				170			170	
Cutting diameter (mm)	386				450				450			450	
No. of belts	2-3				5				5			5	
Belt tensioner	by screw setting				automatic				automatic			automatic	
Offset (mm)	-				500				600			1200	
Rear roller	135mm standard				160mm standard				195mm standard			195mm standard	
Rear wheels	-				-				-			-	
Skids	option				standard				standard			standard	



FRO			FRH			FRD		FXN				FXZ		
235	280	325	235	280	320	280	320	195	235	280	320	320	400	480
254	300	346	250	295	335	295	335	212	250	295	335	350	430	510
863	980	1080	1025	1135	1225	1220	1380	890	1050	1174	1302	1750	2200	2700
40	48	56	56	72	80	72	80	48	56	72	80	120	152	184
20	24	28	28	36	40	36	40	24	28	36	40	60	76	92
540 or 1000			540 or 1000			540 or 1000		540 or 1000				1000		
60 - 140			70 - 160			90-160		55 - 160				100 - 260		
1729 - 1828			1844 - 1949			1844 - 1949		1729 - 1828				1611		
44 - 48			52 - 55			52 - 55		59 - 62				64		
50			55			55		55				60		
220			245			245		245				273		
500			540			540		650				760		
5			5			5		5				2 x 4		
automatic			automatic			automatic		automatic				by srew setting		
500			540			540		-				-		
160mm standard			245mm standard			245mm standard		245mm option				-		
option (front)			-			-		option				standard		
standard			standard			standard		standard				standard		

Information provided in this brochure is made for general information purposes only and for worldwide circulation. Inaccuracies, errors or omissions may occur and the information may thus not constitute basis for any legal claim against Kverneland Group. Availability of models, specifications and optional equipment may differ from country to country. Please consult your local dealer. Kverneland Group reserves the right at any time to make changes to the design or specifications shown or described, to add or remove features, without any notice or obligations. Safety devices may have been removed from the machines for illustration purposes only, in order to better present functions of the machines. To avoid risk of injury, safety devices must never be removed. If removal of safety devices is necessary, e.g. for maintenance purposes, please contact proper assistance or supervision of a technical assistant. © Kverneland Group Modena S.p.A.





## Kverneland Group

Kverneland Group is a leading international company developing, producing and distributing agricultural machinery and services.

Strong focus on innovation allows us to provide a unique and broad product range with high quality. Kverneland Group offers an extensive package aimed at the professional farming community, covering the areas of soil preparation, seeding, forage and bale equipment, spreading, spraying and electronic solutions for agricultural tractors and machinery.



## Original Spare Parts

Kverneland Group spare parts are designed to give reliable, safe and optimal machinery performance - whilst ensuring a low cost life-cycle. High quality standards are achieved by using innovative production methods and patented processes in all our production sites.

Kverneland Group has a very professional network of partners to support you with service, technical knowledge and genuine parts. To assist our partners, we provide high quality spare parts and an efficient spare parts distribution worldwide.



Watch us on YouTube  
[www.youtube.com/kvernelandgrp](http://www.youtube.com/kvernelandgrp)



Like us on facebook  
[www.facebook.com/KvernelandGroup](http://www.facebook.com/KvernelandGroup)  
[www.facebook.com/iMFarming](http://www.facebook.com/iMFarming)



Follow us on Twitter  
[#KvernelandGroup](https://twitter.com/KvernelandGroup)  
[#iM\\_Farming](https://twitter.com/iM_Farming)

Kverneland Group UK Ltd.  
Walkers Lane, Lea Green, St. Helens  
Merseyside, WA9 4AF  
Phone + 44 1744 8532 00

[uk.kverneland.com](http://uk.kverneland.com)

