# FARO COMBILINE

PÖTTINGER multipurpose loader wagons with rotors







Rotor-type loader wagons packed with the latest technology

#### Loader wagons for tractors from 90 to 150 hp

PÖTTINGER presents the FARO 3510, 4010, 4510, 5010; the new models in the medium-capacity loader wagon segment ranging between 90 and 150 hp. The 31-knife knife bank and powerful rotor drive for higher capacity make the new FARO a high-performance loader wagon.

PÖTTINGER FARO 8010 / 10010 DRY FORAGE high capacity loader wagons are in a class of their own and have been especially developed for dry crop specialists.

#### 2 in 1 silage/harvesting combination

The FARO 4010 COMBILINE can also be used as a harvest transport wagon, turning it into a cost-effective all-rounder.

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All information on technical data, dimensions, weights, output, etc. and the images shown, are approximate and are not binding. The machines shown do not feature country-specific equipment and may include equipment that is not supplied as standard, or is not available in all regions. Your PÖTTINGER dealership would be pleased to provide you with more information.



## Impressive construction



## POTTINGER, TARIO



#### Rugged drawbar

Depending on the type of tractor and the tyres fitted, a turning angle of up to 60° is possible thanks to the narrow design of the drawbar.

#### High or low drawbar, 2.0 t drawbar load

A parallel lift drawbar with two double acting cylinders is fitted as standard. A drawbar shock absorber is available as an option.

#### **Practical equipment**

- All hoses and cables are routed tidily through the hose holder.
- A folding parking stand makes it easy to attach and detach.
- Optional automatic high and low drawbar transport and loading positions (with POWER CONTROL).
- A ball hitch coupling is available as an option.
- Load-Sensing system is also available.

#### Strong frame

The frame components are constructed using high quality QSTE fine-grained steel. Frame and side pillars are fastened using fine threaded bolts - no welds. Closely-spaced pillars and high-strength side profiles ensure the highest strength.

- Clear inside width of 2.10 m.
- On the FARO 8010 L / 10010 L models, the inside width is 2.30 m.
- On D models, the tailgate opening angle can be adjusted as required from the tractor seat.
- Access ladder and side door are standard on D models, optional on L models
- Floodlights for loading chamber and work area available as an option.







## Power transfer up to 1600 Nm 17% higher capacity

The driveline is designed for high outputs. FARO loader wagons are designed for use on tractors up to 150 hp.

They are driven by a wide-angle PTO shaft and a cam-type clutch to protect the driveline.

- High torque protection of 1600 Nm.
- High performance power range from 90 to 150 hp.
- Loading rotor driven by 1 1/2 inch high strength simplex chain.
- Automatic chain tensioner.
- Automatic chain lubrication for loading system and pick-up

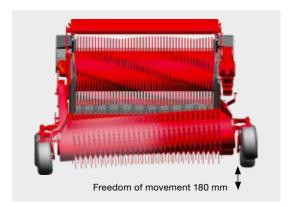
#### Scraper floor drive system

Driven by a powerful hydraulic motor, the speed of which can easily be controlled. A two-speed motor is available as an option for driving the scraper floor.

#### Beater rotor driveline

The driveline to the beater rotors is concealed within the frame. The strong drive shaft is protected by a cam clutch at 1200 Nm.









## Floating pick-up for maximum intake

The PÖTTINGER pick-up guarantees maximum feed rate. The transfer zone from the pick-up tines to the rotor has been optimised and adapted to high throughput The Pottinger floating pick-up, with six rows of tines, delivers impressive performance. A reliable and high intake pick-up is still achieved at high forward speeds and in difficult harvest conditions.

#### Best ground tracking

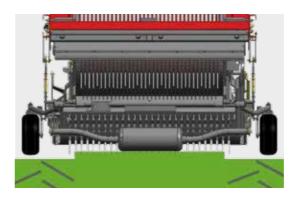
Two jointed support arms ensure the pick-up has complete freedom of movement. A spring alleviates the pick-up weight so less pressure is exerted on the ground. To ensure perfect ground tracking when cornering, the 16 x 6.5-8 jockey wheels can be adjusted to ensure they make contact with the ground on precisely the same line as the tines.

- Unique travel of 180 mm for perfect ground tracking and exact contouring
- Trailed jockey wheels are available as an option; they are standard on the FARO 8010 L and FARO 10010 L.
- Automatic pick-up reel switch off on FARO D models with beaters.
- An additional tracking roller is available as an option.

#### Perfect forage flow

An optimised wind guard with swath roller and guide plates ensure perfect forage flow with every type of crop, even at high loading speed.







#### Controlled pick-up for clean forage

The sealed twin-race roller bearings on the cam rollers are designed to withstand high stresses. The pick-up tines are controlled in a sweeping arc. This results in optimum protection of the sward, lower levels of soil contamination and prevents unnecessary wear to the tines.

- The pick-up is controlled from both ends by a steel cam track.
- Because the pick-up controls the movement of the tines, the crop is brought closer to the rotor tines, which is a real advantage with short, wet grass in the autumn.
- Clean forage is the result thanks to reduced speed and controlled ting movement
- The forage is not dragged through, so there is less longitudinal alignment of stalks, which means better chopping quality.

#### Additional tracking roller behind pick-up

This newly-developed additional tracking roller is located behind the middle of the pick-up on PÖTTINGER loader wagons. Being located in the centre prevents it from sinking into tractor wheel marks and as a result guarantees perfect ground tracking and clean forage.

#### The Parallelogram makes all the difference

The parallelogram guide linkage ensures significantly improved contour tracking for clean forage, even in difficult conditions. 100% freedom of movement of the pick-up is ensured. The front jockey wheels are adjusted independently.

- The additional tracking roller is raised with the pick-up.
- Full ground clearance is still ensured.

## ROTOMATIC PLUS

Loading and chopping









#### Smooth running and fuel saving

ROTOMATIC PLUS is the heart of the FARO range. Rugged and powerful, the rotor delivers high output chopping and compression. ROTOMATIC PLUS represents smooth, efficient chopping of the crop and perfect transfer from the pick-up.

- The loading rotor has seven rows of tines arranged in a spiral with a diameter of 750 mm.
- The loading rotor is mounted on self-aligning ball bearings at both ends.
- The bearings are located on the rotor frame between the rotor and transmission to protect the bearings and drive chain.

#### Optimised tine geometry

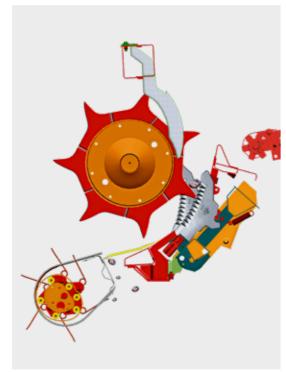
The conveyor tines made from hardened Durostat 500 fine-grained steel are 7 mm thick and ensure maximum performance, even with short, wet forage. The optimised tine shape and large scraper surface ensure the best possible compression in the loading chamber. The tine rings are hooked into the central drum and welded around the circumference for exact positioning.

The scrapers have an 12 mm wide rear face and are individually mounted and bolted. They ensure highest possible compression, depending on how the automatic loading system is set.

#### EASY MOVE - the original

A unique solution, originally by PÖTTINGER: The EASY MOVE knife bank swings out alongside the wagon to ensure ease of use. Change knives conveniently at the side of the loader wagon.





#### 31 knives for 45 mm chopped length.

#### Best knife quality

The knives are produced from hardened tool steel and their pressed serrated edge ensures a precise chop. The extra thick rear edge of the knife guarantees an extended service life.

FARO 8010 / 10010 with a maximum of 11 knives.

#### Knife protection system

PÖTTINGER protects the heart of the silage wagon with an innovative device: the patented foreign object protection system. This device ensures that each knife is individually protected from damage.

- High output requires an adapted trigger pressure. Powerful springs securely hold each individual knife in the correct position to ensure an even chop. Where PÖTTINGER stands out: The trigger pressure for wagon knives reacts differently to a foreign object depending on its size
- Smaller foreign bodies fall through between the pick-up and the rotor.
- Larger foreign bodies are pushed by the rotor onto the knife and move it briefly in the direction of rotation.
- The trigger roll at the back of the knife is lifted out of its holder and the knife releases the foreign body. The resistance is minimal when tripped, which protects the knife.
- After the object has passed through the chopping system, a spring pivots the knife back into its original position.

Unlike a harvester, this system does not pulverise stones. As a result, the cattle leave foreign objects in the trough, preventing injuries to the digestive system from ingestion.



## Versatile and productive







#### Engineered bodywork

A key quality feature is the impact-resistant CIP powder coated finish. The powder-coated topcoat has proved itself in the field thanks to its elasticity and durability: PÖTTINGER have used automotive specification paintwork since 1996.

- Smooth wall panels with a special coating ensure the wagon is completely empty of forage after unloading.
- Close pillar spacing guarantees high strength.
- Easy access to the interior of the wagon is provided by means of an access ladder (optional on L the version).

#### All-steel structure

- The extension bars can be adjusted by 120 mm or 210 mm to lower overall height.
- Optional roof profiles improve compression of hay and straw on the FARO 8010 L / 10010 L.

#### Dry crop extension

A hydraulic folding dry crop extension is also available for FARO 3510 / 4010 / 4510 models. This reduces the maximum height to 2.96m.

#### Additional equipment options

- H3 floodlight inside loading chamber
- LED floodlights on front panel and mudguards.
- LED floodlight package (loading chamber, tailgate, pick-up, knife bank) only with POWER CONTROL or ISOBUS.
- Video system with monitor and one or two cameras.
- Demarcation lights.
- Flashing beacon for loader wagon.







The automatic loading system guarantees that the wagon is filled to achieve maximum transport capacity. The forage is already carefully compressed in the transfer throat to make full use of the loading chamber.

This is standard on the FARO 4010 COMBILINE and FARO 8010 L / 10010 L.

#### Sensors mounted in the front panel and upper panel section

A sensor at the lower end of the front panel measures the loading pressure for damp, heavy grass and controls the scraper floor. This prevents the forage from being mashed due to excessive load on the loading rotor.

The second sensor in the forage compression flap measures the compression inside the loading chamber. The forage is compressed uniformly and the loading chamber filled to the optimum capacity.

#### FARO 4010 COMBILINE

Roof ropes for a rear tarpaulin are available as an option for crop material with a low density.

The forage compression flap can be equipped with an optional hydraulic cylinder which can be controlled from the tractor seat. This enables a rapid change between pick-up loading and top-fill loading.

#### 1. Loader wagon mode

In loader wagon mode, the forage compression flap is folded upwards to allow the flow of the crop into the wagon, which is then regulated by the automatic loading system. Compression is adjustable so it can be set to ideally match the power of the tractor.

#### 2. Harvest transport mode

In harvest transport mode, the forage compression flap is folded inwards as no crop is being picked up. The optional loading duct cover prevents crop from falling into the rotor duct. Slanting mudguards and smooth structural beams prevent stray crop from being carried out onto the

road.







#### Automatic unloading

A press of a button on the control terminal is all that is needed and the full cross section of the tailgate opens to unload FARO L and D models in a few minutes. The automatic unloading system makes life easier for the driver and protects the machine.

#### Lowered scraper floor

- The scraper floor has been lowered at the front by 150 mm to accommodate tyres up to 710/35 R 22.5.
- The forage is pushed upwards as it moves to the rear. This ensures smooth, hassle-free unloading with a low power requirement.
- Powerful drive chains ensure rapid unloading.
- A two-stage motor is available as an option for unloading speeds of up to 18 metres/min.

#### Longetivity of scraper floor

The PÖTTINGER scraper floor guarantees long term reliability. The load chamber floor is constructed of pressure treated, durable wood. The tongue and groove boards are bolted to the frame. The hardened bars are offset and easily accessible and the the greasing points for the scraper floor shafts are located at the side of the wagon.

#### Load sensing

All PÖTTINGER loader wagons are load sensing compatible. The required oil flow rate is precisely measured and adjusted to demand. This prevents the oil from heating up and saves power by up to 15 kW / 20 hp.







#### Metering on demand

#### FARO D models

A uniformly distributed blanket of forage is essential for perfect compaction. Two beater rotors guarantee perfect distribution. The aggressive tines deliver an impressive performance, even with highly compressed forage. Bars on the rotors also ensure maize material can be unloaded effectively. A pressure sensor in the beater rotor bearings controls the scraper floor automatically.

#### Multifunction tailgate

The tailgate opening angle can be set to different positions from the tractor seat to minimise the effects of crosswinds.

- Beater driveline protected to 1200 Nm.
- Automatic chain tensioner.
- Easily access central greasing point.
- Third beater rotor available as an option.

#### Cross conveyor belt

The optional cross conveyor belt is 890 mm wide and is powered hydraulically.

- FARO 4010 D COMBILINE / FARO 4010 D / 4510 D / 5010 D.
- Runs to left and right.
- Tailgate locking system.
- Dedicated on-board hydraulics with flowrate of less than 80 l/min.
- $\blacksquare$  Remote control using optional POWER CONTROL Wireless.



## Perfectly controlled



These control terminals provide the tractor driver with a well-deserved level of support to ensure efficient and consistent productivity. Pöttinger's new generation of in-cab terminals make sure you have everything under control, even after a long day in the field. The development of the terminal focussed on maximum operating convenience, ergonomics and automation of each working step. The intuitive layout is especially useful if there is a frequent change of drivers. The result is a range of control systems to suit your equipment, from electronic preselect controls through to fully integrated ISOBUS terminals.

#### Tough and illuminated - ready to work day and night

- Heavy duty 2-component synthetic casing with rubber edge guard.
- all units feature an illuminated colour display.
- Raised back-lit keys offer optimum visibility at night.

Terminals	DIRECT CONTROL	POWER CONTROL	POWER CONTROL Wireless	EXPERT 75 ISOBUS	CCI 1200 ISOBUS
FARO L					
FARO D	_				

■ = Standard, □ = Optional

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#### Convenient operation without ISOBUS

The CONTROL terminals made by PÖTTINGER make your day in the field easier. Intuitive machine operation is ensured by the clearly labelled keys and the ergonomic design. This enables stress-free work, even on long working days. The backlit keys and adjustable brightness display ensure safe operation even at night.

DIRECT CONTROL (1)
POWER CONTROL (2)
POWER CONTROL Wireless (3)

#### ISOBUS terminals

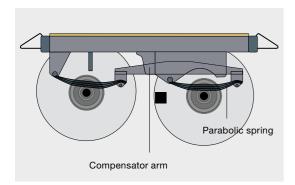
The ISOBUS terminals EXPERT 75 and CCI 1200 enable professional operation of all ISOBUS-compatible machines made by PÖTTINGER as well as other manufacturers.

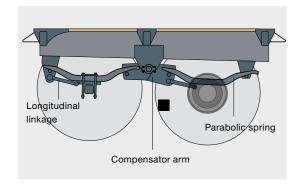
EXPERT 75 (4) CCI 1200 (5)



## Chassis & Tyres







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### Suspended tandem axle with parabolic springs, 10.5 t axle load, 17" (1)

Standard on FARO 3510 / 4010.

The compensator arm distributes the pressure exerted on the ground evenly between the two axles. The springs are 1100 mm apart. When driving over rough ground, the forces are split evenly to both axles instead of being accommodated by shock absorbers.

### **Tandem axles with parabolic spring suspension, 13 t axle load, 17"** (2) standard on FARO 4510 / 5010.

22.5" standard on FARO 4010 COMBILINE.

Parabolic leaf springs with large spring-to-axle spacing and compensator arm to cancel out swaying.

### Tandem axles with parabolic spring suspension and longitudinal linkage, 22.5" (3)

Compensator arm to cancel swaying. Strong longitudinal linkages apply the braking and steering force. This ensures smooth running in the field and on the road as well as perfect suspension while unloading in the clamp.

#### Trailed steered axle optional

No damage to sward, even with really heavy loads. The ISOBUS terminal automatically locks the trailed steering axle at high driving speeds and when reversing.

## Tandem axles with hydro-pneumatic suspension and steered axle with parabolic spring suspension and longitudinal linkage,

The large axle compensation of up to 220 mm is designed to handle challenging field entrances and poor track conditions.

#### Pneumatic brakes

The four wheel air brake system with automatic load-dependent braking system (ALB) ensures safe and smooth braking at high speed.

#### Hydraulic brakes

Hydraulic brakes can be supplied dependent on local legislation.

FARO	3510 L / D	4010 L / D	4010 L / D COMBILINE	4510 L / D 5010 L / D	8010 L DRY FORAGE	10010 L DRY FORAGE
High hydraulic parallel lift drawbar, drawbar load 2 t	•	•	•	<b>T</b>	•	•
Low hydraulic parallel lift drawbar, drawbar load 2 t						
Automatic transport and loading position for parallel lift drawb	oar 🗆					
Rotating eye						
Ball hitch						
Drawbar shock absorber						
Tandem axle with leaf springs, 10.5 t axle load, 17"		•	_	-	_	
Tandem axle with parabolic leaf springs, 13 t axle load, 17"			_		•	_
Tandem axle with parabolic leaf springs ADR, 13 t axle load, 22.5"	_					_
22.5" Tandem axle with parabolic leaf springs ADR, 16 t axle load, 22.5"	-					•
Tandem axle with ADR hydro-pneumatic suspension, 16 t axle load, 22.5"	_				-	_
Trailed steered axle	_					
Permissible total weight 12.5 t		•	=	-	=	=
Permissible total weight 15 t						-
Permissible total weight 16 t	_	-	=	-		
Permissible total weight 18 t	_				_	-
Tyres 500/50-17			_			_
Tyres 520/50 R 17 8 L			_			
Tyres 560/45 R 22.5 8 L	_		•			
Tyres 620/40 R 22.5 8 L	_					
Tyres 710/35 R 22.5 8 L	-					

<sup>■ =</sup> Standard, □ = Optional



## Technical data

	FARO 3510 L	FARO 3510 D	FARO 4010 L	FARO 4010 D	
Capacity	35 m³	35 m <sup>3</sup>	40 m³	40 m³	
Volume DIN with roof ropes	24 m³	23 m³	27 m³	26 m³	
Pick-up width	1850 mm	1850 mm	1850 mm	1850 mm	
Number of knives	31	31	31	31	
Knife spacing	45 mm	45 mm	45 mm	45 mm	
Loading area length	5000 mm	4750 mm	5680 mm	5430 mm	
Loading area width	2100 mm	2100 mm	2100 mm	2100 mm	
Length	7780 mm	8250 mm	8460 mm	8930 mm	
Width	2420 mm	2420 mm	2420 mm	2420 mm	
Height with roof ropes 17"	3560 mm	3560 mm	3560 mm	3560 mm	
Height with roof ropes 22.5"	-	_	3680 mm	3680 mm	
Standard weight	5550 kg	5950 kg	5650 kg	6050 kg	

	FARO 4010 L COMBILINE	FARO 4010 D COMBILINE
Capacity	40 m³	40 m³
Volume DIN without roof ropes	23 m³	22 m³
Volume DIN with roof ropes	24.5 m³	23.5 m³
Pick-up width	1850 mm	1850 mm
Number of knives	31	31
Knife spacing	45 mm	45 mm
Loading area length	5680 mm	5680 mm
Loading area width	2100 mm	2100 mm
Length	8400 mm	8880 mm
Width	2510 mm	2510 mm
Height without roof ropes 22.5"	3350 mm	3350 mm
Height with roof ropes 22.5"	3675 mm	3675 mm
Standard weight	6350 kg	6850 kg

FARO 4510 L	FARO 4510 D	FARO 5010 L	FARO 5010 D
45 m³	45 m³	50 m³	50 m <sup>3</sup>
30 m <sup>3</sup>	29 m³	33 m³	32 m³
1850 mm	1850 mm	1850 mm	1850 mm
31	31	31	31
45 mm	45 mm	45 mm	45 mm
6360 mm	6110 mm	6360 mm	6110 mm
2100 mm	2100 mm	2100 mm	2100 mm
9140 mm	9610 mm	9140 mm	9610 mm
2420 mm	2420 mm	2420 mm	2420 mm
3560 mm	3560 mm	3760 mm	3760 mm
3680 mm	3680 mm	3880 mm	3880 mm
5800 kg	6200 kg	5850 kg	6350 kg

	FARO 8010 L DRY FORAGE	FARO 10010 L DRY FORAGE
Capacity	80 m <sup>3</sup>	100 m <sup>3</sup>
DIN volume	48 m³	52 m³
Pick-up width	1850 mm	1850 mm
Number of knives	11	11
Knife spacing	135 mm	135 mm
Loading area length	7730 mm	9140 mm
Loading area width	2100 mm	2100 mm
Length	10790 mm	11990 mm
Width	2500 mm	2550 mm
Height with roof ropes 17"	3980 mm	_
Height with roof ropes 22.5"	4000 mm	4000 mm
Weight	6550 kg	7700 kg

## **FARO** equipment options











		*3		
ARO	POWER CONTROL	POWER CONTROL Wireless	EXPERT 75 CCI 1200 ISOBUS	Additional tracking roller for pick-up
510 L / 4010 L / 4510 L		=		
510 D / 4010 D / 4510 D				
010 L		_		
010 D				
010 L / 10010 L		_	_	





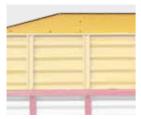






FARO	POWER CONTROL	POWER CONTROL Wireless	EXPERT 75 CCI 1200 ISOBUS	Additional tracking roller for pick-up
3510 L / 4010 L / 4510 L		=		
3510 D / 4010 D / 4510 D				
5010 L		<del>-</del>		
5010 D				
8010 L / 10010 L		_	_	

	1	AS 955	# F		
Knife bank swings out alongside wagon	Bolt-on frame with 6 / 11 knives	Automatic loading	Metal roof profiles	Adjustable tailgate strut	
			_		
			-	_	
			_		
			_	_	
	,				



Crop deflector board

for steel superstructure

FARO

3510 D

5010 L

5010 D

4010 D / 4510 D

8010 L / 10010 L

 $\blacksquare$  = Standard,  $\square$  = Optional

3510 L / 4010 L / 4510 L



Dry crop extension

folds hydraulically



with ladder



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The same of the sa	
Cross conveyor belt	On-board hydraulics for cross conveyor belt
_	_
_	-
-	-
=	=



Additional equipment options

- Automatic high and low drawbar positions for transport and loading (with POWER CONTROL).
- Trailing jockey wheels for pick-up
- Hydraulic pick-up weight alleviation
- Rear switch for scraper floor
- Load sensing
- Two-stage motor for scraper floor
- Hydraulic brake
- Loading chamber and work lights
- LED floodlights on front panel and mudguards.
- LED package (loading chamber, tailgate, pick-up, knife bank with POWER CONTROL).
- Demarcation lights
- Video system with monitor and camera
- Flashing beacon for loader wagons

## FARO 4010 COMBILINE equipment options

















ARO	POWER CONTROL

POWER CONTROL

**EXPERT 75** 

Additional tracking roller

Knife bank swings out alongside wagon

**Bolt-on frame** with 6 / 11 knives

**Automatic loading** 

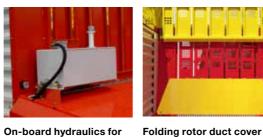
	Wireless	ISOBUS	ior pick-up
4010 L COMBILINE			
4010 D COMBILINE			



Access door with ladder



Cross conveyor belt



cross conveyor belt



-	The second
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N.V.	



Roof ropes with rear

tarpaulin

Hydraulic folding automatic loading flap

7	П

Additional equipment options

- Automatic high and low drawbar positions for transport and loading (with POWER CONTROL).
- Trailing jockey wheels for pick-up
- Hydraulic pick-up weight alleviation
- Rear switch for scraper floor
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- Video system with monitor and camera
- Flashing beacon for loader wagons

■ = Standard, □ = Optional

4010 L COMBILINE

4010 D COMBILINE

**FARO** 



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- Operating instructions
- Optional equipment information
- **Brochures**
- Photos and videos



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