COMIA COMBINE HARVESTER

SAMPO ROSENLEW

SAMPO COMIA IS AN ADVANCED COMBINE HARVESTER MODEL.

Comia is an outstandingly efficient combine which is suitable for big and middle size farms. A superior performance and agile maneuverability makes the longest working day like a walk in the park.

The Comia have been harvesting in many locations, offering a wide variety of conditions, around the Globe, including from very dry to crops with high moisture content.

Find out more at your local dealer or www.sampo-rosenlew.fi

COMIA SERIES

COMFORT HAS A NEW STANDARD
COMIA 2.0

CUTTING TABLE

Thanks to years of careful design, whether the growth is tall or low, the Comia cutting table can easily handle it. The optimal distance from the knife to the feeder auger ensures uninterrupted feed to the machine's feeder elevator.

COMIA C6 TO C12

- Header widths 3,9- 6,3 m
- Automatic reel speed adjustment
- AHC- header automatic available
- Hydraulic header reverse
- Service friendly WB-knife drive

KNIFE

The Comia line uses modern screw-on knife blades. In the event of a failure, you can easily replace a knife blades. The knife is operated by a belt-driven Wobble Box drive. WB knife drive is almost maintance free.

FEEDER AUGER

The large diameter of the feeder auger prevents wrapping in even the most demanding conditions. In order to achieve even feed, the number of fingers have been increased according to the table width.When fingers are spread evenly across the entire auger, even peak loads will not cause problems.

PICK-UP REEL

The plastic pick-up reel tines ensure efficient and gentle feed even when harvesting laid-down crops. If a plastic tine breaks off, for example, due to stone impact, the threshing mechanism will not be damaged in any way. The pick-up reel can be put in a automatic mode, when it responses to the ground speed of the combine.

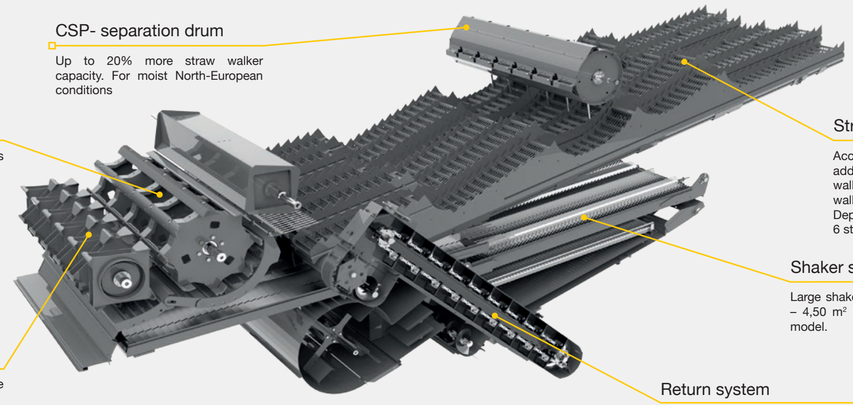
SPECIAL HEADERS

For Sampo-Rosenlew combine harvesters are available many options for special crops. You can fit a corn or sunflower header on the Comia series. Depending on the model a 4 or 6 row corn header can be fitted. For harvesting rape an extension for the header can be fitted.

All of the controls of the cutting table are located on the traction lever.

THRESHING MECHANISM

The threshing mechanism on the picture features a Comia C12.



CSP- separation drum

Up to 20% more straw walker capacity. For moist North-European conditions

Threshing cylinder

The wide and big cylinder is efficient and gentle.

Straw walkers

Accordingly to field tests, adding a pair off straw walkers, it increases straw walker output by 10%. Depending on the model 5 or 6 straw walkers.

Shaker shoe

Large shaker shoe area. 3,40 – 4,50 m² depending on the model.

Pre-threshing cylinder

20% more efficient than a single cylinder combine.

Return system

An efficient separate re-threshing device.

EVEN EFFICIENCY WITH A PRE-THRESHING CYLINDER

The pre-threshing cylinder increases the efficiency of the machine without having to widen the machinery. Depending on the conditions, a C8 or C12 equipped with a pre-threshing cylinder is up to 20% more effective compared to a single cylinder harvester. Under optimal conditions, up to 40% of threshing takes place at the pre-threshing cylinder.

The sturdy Heavy Duty thresher cylinder on the Comia series ensures steady rotation even in the most demanding conditions. The 8 rasp bar cylinder has a diameter of 500 mm. The thresher cylinder's flanges are made of cast iron: a feature that is not available from other manufacturers. There are two different types of concaves. For threshing grain, there is a separate, thin-wired and precisely threshing concave. The Universal model has strong wires and it is intended for corn, soy and sunflower threshing.

SHAKER SHOE

The total shaker shoe areas are from 3,40 to 4,50 square meters, depending on the model. The upper sieve is a modern lamella sieve type. On the RV2 lamella sieve, every other lamella is angled down to efficiently prevent straw fragments from entering the grain tank. The grain sieve is a round hole sieve on the C6 to C8 models. On the C10 and C12 the lower sieve is an adjustable sieve.

The large-diameter fan effectively blows to the shaker shoe. The speed of the fan can be conveniently adjusted from the cabin.

The Comia include an unprecedented feature for separating returns. The returns are not taken to the thresher. Instead, they are taken through the re-thresher and are gently brought back into the machinery. On C4 to C8 models the re-threshed material is blown back on the grain pan.

On C10 and C12 models, instead of the traditional auger, the returns are transported to the re-thresher using an elevator. Due to the new structure, the grain pan is able to bring the re-threshed material to the shaker shoe in a controlled manner without interfering with the airflow of the fan.

STRAW WALKERS

Sampo-Rosenlew combines are famous for their excellent performance in the moist northern European conditions. In such conditions, a combines performance is almost always determined by its straw walkers. Removable straw walkers bottoms are made of stainless steel. Depending on the model there are 5 or 6 straw walkers. Threshing tests indicate that adding a straw walker pair can increase walker performance by up to 10%.

CSP-SEPARATION DRUM

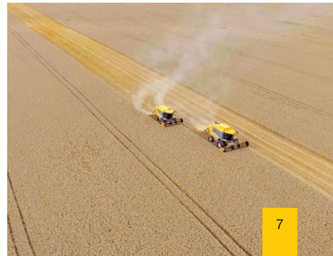
If harvesting is performed in damp conditions or if the crop is green, high straw walker performance is essential. The CSP (Cylinder Separation) separation drum, located on top of the walkers, is designed to increase the separation capacity of the walkers. In Northern European harvesting conditions, the CSP separation drum achieves approximately a 20% efficiency increase at the walkers. CSP -drum is an option on every model.

STRAW CHOPPER

When harvesting with a wide cutting table, the straw mass is enormous. When the straws are chopped, it is important that the chopped straw are chopped as small as possible and spread evenly back onto the field. Regardless of the cultivation method, an even and fine straw mass is always beneficial.

The Comia C6 to C8 are equipped with standard chopper, rotating 3300 rpm. A high-speed chopper is available for these models also. The C10 and C12 comes standard with a high speed chopper, rotating 3800 rpm.

To disengage the chopper is a very easy maneuver on the C10 and C12. Just pushing a lever at the chopper and you can switch between chopped or long straw.



AVARA -CAB

AVARA - MORE THAN JUST GOOD LOOKS

Eight work lights, modern LED day driving lights, and a wide windscreen. The internal measurements have grown by 30 cm which provides a lot of extra space. The driver's clear visibility of the cutting table has been one of the things that were taken in to consideration when designing the new cab. An air suspended seat comes as standard with the Avara cab. The safety of the driver is ensured with a seat belt.

Just by sitting in the new cab you are able to notice many handy details. There is a sun screen that can be pulled down from the ceiling of the cab. There is more storage space than before including a large storage space under the instructional seat. A handy cooler for snacks and drinks is available as an optional extra.

ONE-HAND CONTROL

Best threshing results are achieved when the combine harvester is easy to use. The control console integrated in the seat acts as the nerve centre of the Avara cab. ComVision II, a large 12.3 inch touchscreen, a control console, and a drive handle exclusively designed for the Comia-range. The 45 degree design of the handle differs from that used in other handles on the market. In this position, the hand can rest on top of the handle while still being able to control different functions. The multi-function lever is only one part of the well-thought-out controls used in the Comia-series. All threshing-related activities, such as the controls of the machinery and cutting table, are located in the armrest. The console also has 12V and USB plugs. A handy storage compartment, e.g. for a mobile phone, has been integrated into the console.

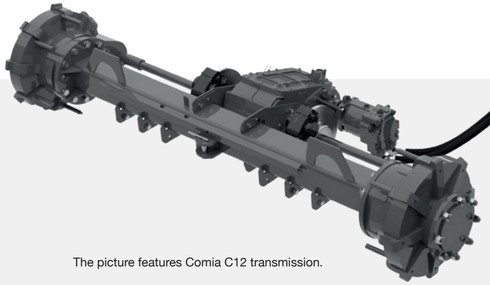
The 12.3 inch 8:3 screen is the widest combine harvester screen on the market. You can easily control the touchscreen with one hand while threshing. The screen has been split into two views, a static and an alternative view. You can choose the alternative view yourself e.g. rpm monitoring view or reversing camera view.

Comvision II

TRANSMISSION AND ENGINE

TRANSMISSION

Driving the Comia is very easy. The traction lever is used to determine direction and speed. The wide tyres, which come as standard, ensure good driving properties. Another practical option is hydraulic four-wheel drive. It also allows the rear wheels to pull. This helps forward progress in difficult conditions and aids in preventing creating tracks in the field.



The picture features Comia C12 transmission.

ENGINE

The emission standards of diesel engines are constantly becoming stricter. The Sampo Comia fulfil strictest emission requirements of commercial machinery. Using the new SCR diesel technology, you preserve the environment and save 10% in fuel costs, when compared with Common Rail fuel systems. The exhaust gases of the engine are treated with AdBlue. Using the Comvision display in the cab, you can monitor the consumption of the additive.

The engine power specifications are from 172 hp on C6 up to 300 hp on the C12 model The AGCO Power engines with excellent torque rotate at 2,000 rpm.

GRAIN TANK

On the Comia C6 to C8 grain tank sizes are from 4400 and 5400 liters, depending on model. Unloading height is standard 4,00 m. The unloading speed is 75 l/s on these two models.

Comia C10 and C12 has grain tank sizes 6000 liter and 7600 liter. Both combines are equipped with an efficient closed unloading grain tank. The unloading speed up to 100 l/s.

A large cab window ensures excellent visibility of the tank from the cab. Visibility is further enchanced by a grain tank working light, which can be switched on from the cab. The tank features a membrane-type level sensor with audible alarm system.

The unloading auger can be turned and discharge started via the control console integrated in the armrest. This makes unloading notably easier, especially when carried out while driving.

COMIA C6 AND C8

- Grain tank sizes, 4400 and 5400 liters
- Unloading height standard 4,00 m.
- Electrical engagement of unloading

COMIA C10 AND C12

- Grain tank sizes, 6000 and 7600 liter
- Unloading height standard 4,4 m
- Electrical engagement of unloading

CLEANING AND MAINTENANCE

The undisputed leader, on the combine harvester market with regards to clean ability. One needs to only study this spread to ensure the accuracy of this statement. Sampo-Rosenlew harvesters have always been easy to clean, due to technical solutions. The grain pan segments can be extracted, straw walker bottoms can be removed, and so on. Although the same features may be included in other makes, Sampo has implemented them so that you do not have to carry out cleaning in your service area. Instead, you can clean them on the field and save time.

When harvesting in moist or otherwise difficult conditions, material tends to accumulate under the concave on the front section of the grain pan. In such situations it is important that the grain pan segments can be removed for cleaning. The straw walker bottoms can be conveniently pulled out using the back door of the combine. You can do all this in field conditions, using the special tools provided with the machine.

SAMPO SERVICE AND SPARE PARTS ALWAYS AVAILABLE.

There is a world wide support chain responsible for the service of the Sampo Rosenlew combines. The mechanics are trained at the factory. They are always ready to drive to the farm in their well-equipped service vans and service your combine using their latest know-how with appropriate special tools and gauges. We strongly recommend that you should use these professionals when you need either periodic maintenance or service after the threshing season.

COMIA MODELS

C8

- 6 cylinder 210 hp AGCO Power engine
- 4,5 m cutting header
- AVARA cab
- Air conditioning
- Comvision II –touch screen display
- 8 rasp bar HD-cylinder
- TS-pre threshing cylinder
- 5400 liter grain tank
- 5 four step straw walkers
- Straw chopper 3300 rpm
- 600/65R34 front tires
- 420/65R20 rear tires

C6

- 4 cylinder 172 hp AGCO Power engine
- 4,2 m cutting header
- AVARA cab
- Air conditioning
- Comvision II –touch screen display
- 8 rasp bar HD-cylinder
- 4400 liter grain tank
- 5 four step straw walkers
- Straw chopper 3300 rpm
- 600/65R34 front tires
- 420/65R20 rear tires

C12

- 6 cylinder 300 hp AGCO Power engine
- 5,7 m cutting header
- AVARA cab
- Air conditioning
- Comvision II –touch screen display
- 8 rasp bar HD-cylinder
- TS-pre threshing cylinder
- 7600 liter grain tank
- 6 four step straw walkers
- Straw chopper 3800 rpm
- 650/65R38 front tires
- 480/65R24 rear tires

C10

- 6 cylinder 238 hp AGCO Power engine
- 5,1 m cutting header
- AVARA cab
- Air conditioning
- Comvision II –touch screen display
- 8 rasp bar HD-cylinder
- 6000 liter grain tank
- 6 four step straw walkers
- Straw chopper 3800 rpm
- 650/65R38 front tires
- 480/65R24 rear tires

TECHNICAL SPECIFICATIONS

			COMIA C6	COMIA C8
CUTTING TABLE				
Standard width	m		4,20	4,50
optional widths	m		3,90/4,50	4,20/4,80
Cutting height	m		- 0,20...+1,20	- 0,20...+1,20
Knife speed	strokes/min		1020	1020
Header reverse	type		hydr.	hydr..
REEL				
Diameter	m		1,05	1,05
Speed range	rpm		15...49	15...49
Speed adjustment			hydr..	hydr.
For/aft adjustment			hydr.	hydr.
PRE-THRESHING CYLINDER				
Width/diameter	m			1,11/0,40
Rate	rpm			600...1300
Concave area	m^2			0,34
THRESHING CYLINDER				
Width/diameter	m		1,11/0,50	1,11/0,50
HD -cylinder			std	std
Number of rasp bars	pcs		8	8
Rasp bar type			changeable	changeable
Speed range	rpm		600…1300	600…1300
Speed adjustment			elec.	elec.
CONCAVE				
Area	m^2		0,51	0,51
Angle of wrap	°		105	105
Number of rasp bars	pcs		12	12
Steppless adj.range	mm		6…42	6…42
Concave adjustment			elec.	elec.
STRAW WALKERS				
Number	pcs		5	5
Total separation area	m^2		4,80	4,80
CSP-separating drum			option	option
SHAKER SHOE				
Top sieve	m^2		1,74 + 0,33	1,74 + 0,33
Bottom sieve	m^2		1,33	1,33
Total area	m^2		3,40	3,40
Fan speed adjustment			elec.	elec.

			COMIA C6	COMIA C8
STRAW CHOPPER				
Swining knife type			std	std
GRAIN TANK				
Capacity	m^3		4,40	5,40
Discharge height	m		4,00	4,00
ENGINE				
			Sisu Power	Sisu Power
Power	kW/hv		127/172	154/210
Rpm/cylinder			2000/4	2000/6
Fuel tank capacity	l		350	350
TRANSMISSION				
			Hydro	Hydro
Final drives			closed final drives	closed final drives
TIRES				
Front			600/65R34	600/65R34
Rear			420/65R20	420/65R20
CAB				
			Avara	Avara
Seat model			Sears	Sears
Extra seat			std	std
Heater			std	std
Air conditioning			std	std
Radio/CD			std	std
WEIGHT				
Standard header and chopper	kg		8000	9000
DIMENSIONS				
Lenght with std header w/o dividers	m		8,68	9,10
Transport height	m		3,65	3,65
Transport width with std header	m		4,60	4,90
Transport width w/o header with std tires	m		3,12	3,12
Clearance	m		0,43	0,43
PLENTY OF OPTIONS AND ACCESSORIES				

The product development of the Sampo Rosenlew combines continues. Therefore the Company reserves the right to modify the products without prior notice and without obligation to make the same modifications to combines previously manufactured. The pictures in this brochure are selected from globally used material, due to which some details may vary from country to country. Check the information with your dealer.

COMIA Techinical specifications		C10	C12
CUTTING TABLE			
Standard width	m	5,10	5,70
optional widths	m	4,80	5,10 / 6,30
Cutting height	m	- 0,20...+1,20	- 0,20...+1,20
Knife speed	strokes/min	1020	1020
Header reverse	type	hydraulic	hydraulic
REEL			
Diameter	m	1,05	1,05
Speed range	rpm	0...50	0...50
Speed adjustment		hydraulic	hydraulic
Electric fore/aft adjustment		hydraulic	hydraulic
PRE-THRESHING CYLINDER			
Width/diameter	m		1,33-0,40
Speed	rpm		600...1300
Concave area	m^2		0,41
THRESHING CYLINDER			
Width/diameter	m	1,33 / 0,50	1,33 / 0,50
HD -cylinder		std	std
Number of rasp bars		8	8
Rasp bar type		changeable	changeable
Speed range	rpm	600…1300	600…1300
Speed adjustment		elec.	elec.
CONCAVE			
Area	m^2	0,62	0,62
Angle of wrap	°	105	105
Number of rasp bars		12	12
Stepless adj.range	mm	6…42	6…42
Concave adjustment		elec.	elec.
STRAW WALKERS			
Number		6	6
Total separation area	m^2	6,30	6,30
CSP-separation drum		option	option
SHAKER SHOE			
Top sieve	m^2	2,30 + 0,40	2,30 + 0,40
Bottom sieve	m^2	1,80	1,80
Total area	m^2	4,50	4,50
Fan speed adjustment		elec.	elec.

COMIA Tekniset tiedot		C10	C12
STRAW CHOPPER			
High speed chopper		std	std
GRAIN TANK			
Capacity	m^3	6,00	7,60
Discharge height	m	4,40	4,40
ENGINE			
		AGCO Power	AGCO Power
Power	kW/hp	175/238	221/300
RPM/cylinder		2000/6	2000/6
Fuel tank capacity	l	450	450
TRANSMISSION			
		Hydro	Hydro
Final drives		closed final drives	closed final drives
TIRES			
Front		650/65 R 38	800/65 R 32
Rear		480/65 R 24	480/65 R 24
CAB			
		Avara	Avara
Seat model		Sears	Sears
Extra seat		std	std
Heater		std	std
Air conditioning		std	std
Radio/CD		std	std
Combine monitor		Com Vision	Com Vision
WEIGHT			
With standard header and chopper	kg	11700	12600
DIMENSIONS			
Lenght with std header w/o dividers	m	8,68	9,10
Transport height	m	3,97	3,97
Transport width with std header	m	4,60	4,90
Transport width w/o header with std tires	m	3,70	3,7
Clearance	m	0,43	0,43
PLENTY OF OPTIONS AND ACCESSORIES			

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