

JAGUAR 800 / 900 Stage 4 (Tier 4)

## **The new JAGUAR – more comfortable, cleaner, more efficient**

Harsewinkel / Hanover, September 2015. With two model series and a total of eleven models, CLAAS still offers the widest range of forage harvesters worldwide. From the intake through to the discharge spout, CLAAS has once again demonstrated outstanding engineering and innovative leadership with this machine. With implementation of the Stage IV emissions standard across the range, CLAAS has introduced advanced technologies, new cracker rollers and implements as well as an exclusive tyre pressure control system for the steering and driven axles of the JAGUAR.

With new 6-cylinder inline engines from Mercedes-Benz and SCR technology for emissions treatment, all CLAAS JAGUAR models now fulfil the Stage IV (Tier 4) emissions standard. The AdBlue urea solution required by the system is carried on board in a 130 l tank. The two most powerful models, the 980 and 970, are however not covered by any emissions regulations due to their high engine power of over 560 kW. They have therefore retained their V8 and V12 engines from MAN.

### **Further development of DYNAMIC POWER**

The engine is not the only factor which affects the efficiency of the machine, as intelligent management of the operating rate is also important. For this reason, CLAAS uses the DYNAMIC POWER automatic engine power control system in the JAGUAR and has developed it further for introduction to the 980 to 940 models, in addition to the 870 and 860, adding three modes which can be selected in CEBIS. DYNAMIC POWER controls the engine power depending on the engine speed. In the wide-open throttle range, the system achieves its maximum efficiency and throughput because the engine develops its maximum power at 1800 rpm. In the partial-load range with engine speeds of 1800 – 2000 rpm, the DYNAMIC POWER system adjusts the engine power to the operating conditions and gradually reduces the engine speed in 10 steps. This achieves a fuel saving of up to 10.6% in the partial-load range. Another new feature is that the driver can choose from the three engine power settings of three steps. The driver can choose “maximum power”, “high power” or “normal power”. A further new function is that during harvesting, the machine always drives into the crop at maximum engine power (stage 10) and only then does the system adjust the engine to the most efficient setting. This improves functional reliability.

### **CRUISE PILOT - Automatic speed control**

The CRUISE PILOT automatic speed control system also helps to achieve the maximum engine operating rate and efficiency, while at the same time reducing the stress on the driver. In 2013, CLAAS introduced the familiar CRUISE PILOT system to its forage harvesters. Previously it had only been offered on the LEXION combine harvester. It was initially introduced to the top-of-the-range model, the JAGUAR 980. CLAAS is now making this technology available on a further six models, the JAGUAR 970 to 940 as well as the 870 and 860 models. To use the CRUISE PILOT, the driver first programs the desired target engine speed in CEBIS. It is activated easily using a push button directly on the multifunction lever. From this point, the JAGUAR continuously strives to drive at the specified engine operating rate. If the crop density suddenly increases, the vehicle speed is automatically reduced. If the crop density then reduces, the JAGUAR increases the vehicle speed until the specified engine operating rate is reached again. The control system operates by detecting the throughput volume and engine operating rate. The driver can choose between the three operating strategies of cruise control (constant vehicle speed), output (constant throughput) and maximum engine operating rate.

### **Tyre pressure control system for drive and steering axles**

The JAGUAR has long been equipped with a tyre pressure control system on the front axle – with the familiar benefits of this technology: soil protection, improved traction and especially ride comfort in the field, high driving stability and minimised tyre wear on the road, as well as overall fuel savings. The JAGUAR 900 now becomes the first forage harvester on the market to be equipped with a dual-line tyre pressure control system for the drive and steering axles. The system allows significantly faster air exchange thanks to its two lines, a large air inflation/deflation line and a control line. The control line operates the rim valves and checks the set air pressure every 30 minutes. This ensures that the air pressure specified by the tyre manufacturer is maintained on the field and, in particular, on the road. Before using the machine, the driver sets the corresponding tyre inflation pressures – once for the drive axle tyres and separately for the steering axle tyres. During machine usage, the preprogrammed air pressures are always automatically adjusted depending on the position of the road travel switch, with the system automatically setting higher pressures for the on-road setting and lower pressures for the field setting.

### **MULTI CROP CRACKER – Two new cracker rollers for long-cut maize silage**

On the JAGUAR, the chopped crop is conditioned by the MULTI CROP CRACKER (MCC), a flexible cracker concept which allows various cracker rollers with different roller profiles to be used depending on the crop type and desired conditioning level. The rollers can easily be swapped in and out as necessary. Until now, the CLAAS range of cracker rollers for maize silage has included the MCC M (medium roller diameter) and L (large roller diameter) with sawtooth profile for short-cut silage with chop lengths of 4.0-12 mm. CLAAS is now expanding its range with two additional cracker roller profiles for long-cut silage and Shredlage in maize. The new MCC MAX rollers have been developed for conditioning maize silage with chop lengths of between 15 and 22 mm. They operate with a

sawtooth profile on 30 annular elements. Also new to the range, the MCC SHREDLAGE cracker roller features a counter-rotating spiral groove in addition to the sawtooth profile. This cracker is thus capable of intensively conditioning maize with an unusually long chop length of 26 to 30 millimetres.

### **CMOTION multifunction lever – Now also for the JAGUAR**

In future, the JAGUAR will be operated using the familiar CMOTION multifunction lever. It has proven its worth in practice and is popular for its ergonomic design combined with intuitive and sensitive operation. It can be used to control up to 13 machine functions. After introducing it for the first time to the XERION in 2009, CLAAS has continuously developed the multifunction lever and it is today installed on CLAAS tractors, the LEXION, the TUCANO and is now also optionally available for the JAGUAR. Hiding behind the complex technology is the simple aim of establishing one operating concept for all self-propelled CLAAS machines. Just get in and drive off.

### **Sit down and feel good**

Ergonomics and comfort are also of crucial importance in selecting a driver seat. Until now, JAGUAR drivers have been able to choose between seat variants such as the standard seat, premium seat and also a swivel seat. With the new JAGUAR models, an additional high-quality leather seat with heating and cooling functions has been introduced across the range. It is also possible to order the co-driver seat in high-quality leather.

### **LED work lamps**

On long days of working through into the night, drivers are not just looking for seating comfort and stress-free machine operation. In the twilight hours and in the dark, it is important to have the right work lamps. The previous JAGUAR lighting concept with H9 and xenon headlamps for forward and side illumination is now optionally available in an LED variant.

### **Individual locking system**

And when it is finally time to finish work at the end of the day, the driver can leave their JAGUAR behind on the field with confidence. That's because CLAAS is introducing an individual locking system to the new machines. Every JAGUAR can optionally be equipped with an individual key which fits the locks of the cab door, the ignition, the diesel tank flap and the urea tank flap.

### **New DIRECT DISC 600 and 500 implement series**

CLAAS is introducing new attachments for the JAGUAR. The DIRECT DISC 600 / 500 for the JAGUAR 900 and the DIRECT DISC 500 for the 800 series. Both work with the new CLAAS-developed MAX CUT cutterbars. The cutting discs of the attachment are positioned very close to the front and produce a very clean stubble pattern. The intake augur on the new attachments also has a significantly larger diameter. This makes them particularly suitable for harvesting very tall crops. Lateral knives are also available for harvesting crops with a high level of intergrowth. The two-stage activation process, with the intake augur activated first followed by the cutterbar, has been taken over

from the current model series to allow the attachment to also be activated at high engine idle speeds. The new DIRECT DISC model series widens the application area of the direct cutterbars to allow the harvesting of energy crops and, in particular, tall crops such as sorghum up to a height of 4.0 m.

#### Engine variants of CLAAS JAGUAR 900 Stage IV (Tier 4)

Model	980	970	960	950	940	930
Manufacturer	MAN	MAN	Mercedes-Benz	Mercedes-Benz	Mercedes-Benz	Mercedes-Benz
Engine model	D2862	D2868	OM 473 LA	OM 473 LA	OM 471 LA	OM 471 LA
Cylinders	V12	V8	Inline 6	Inline 6	Inline 6	Inline 6
Displacement, litres	24.2	16.2	15.6	15.6	12.8	12.8
Engine power at working speed 1800 rpm (ECE R 120), kW/hp	650/884	570/775				
Engine power at working speed 1700 rpm (ECE R 120), kW/hp			460/626	430/585	380/516	340/462

#### Engine variants of CLAAS JAGUAR 800 Stage IV (Tier 4)

Model	880*	870	860	850	840
Manufacturer	Mercedes-Benz	Mercedes-Benz	Mercedes-Benz	Mercedes-Benz	Mercedes-Benz
Engine model	OM 473 LA	OM 473 LA	OM 471 LA	OM 471 LA	OM 470 LA
No. of cylinders	Inline 6				
Displacement, litres	15.6	15.6	12.8	12.8	10.6
Engine power at working speed 1700 rpm (ECE R 120), kW/hp	460/626	430/585	380/516	340/462	300/408

\*Only for North America

You find CLAAS at Agritechnica 2015 in hall 13, booth No C05.

#### Please note:

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CLAAS ([www.claas-group.com](http://www.claas-group.com)) is a family business founded in 1913 and is one of the world's leading manufacturers of agricultural machinery. The company, with corporate headquarters in Harsewinkel, Germany, is the European market leader in combine harvesters. CLAAS is the world leader in another large product group, that of self-propelled forage harvesters. CLAAS is also a top performer in agricultural technology worldwide, with its tractors, agricultural balers and green harvesting machinery. The CLAAS product portfolio also includes state-of-the-art farming information technology. CLAAS employs 11,400 workers worldwide and reported a turnover of 3.8 billion euros in the 2014 financial year.