

NEW CORN HEAD DIAMANT: THE REVOLUTION IN CORN HARVEST

**DIAMANT**



**capello**

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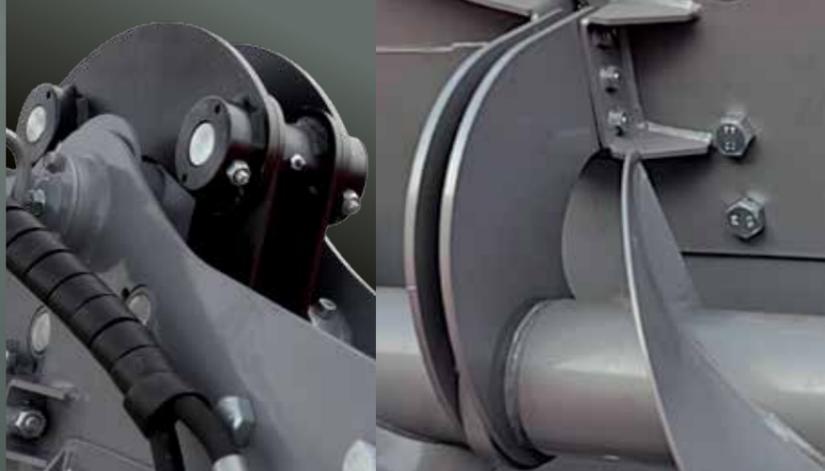


Thanks to the adjustable working position the corn head always has the correct inclination towards the ground.

## LIGHT FRAME, "HEAVY" TECHNOLOGY

Our engineers let themselves inspire by the form of the folding mechanism naming the new folding corn head series "HS", the abbreviation of the English word Horse Shoe. How can a lighter machine be more robust

at the same time? The frame of the DIAMANT shows that this is possible and no contradiction! It's design was invented to create a light but solid structure with the perfect dimensions to equip even the biggest folding corn heads. Obviously also the new corn head can be mounted on every type of combine and the working angle can be adjusted according to customer's needs.



The concept of the new DIAMANT is revolutionary and innovative. Lighter but at the same time more robust, perfect mechanics, new design – all these new features offer unattained operating standards and productivity.





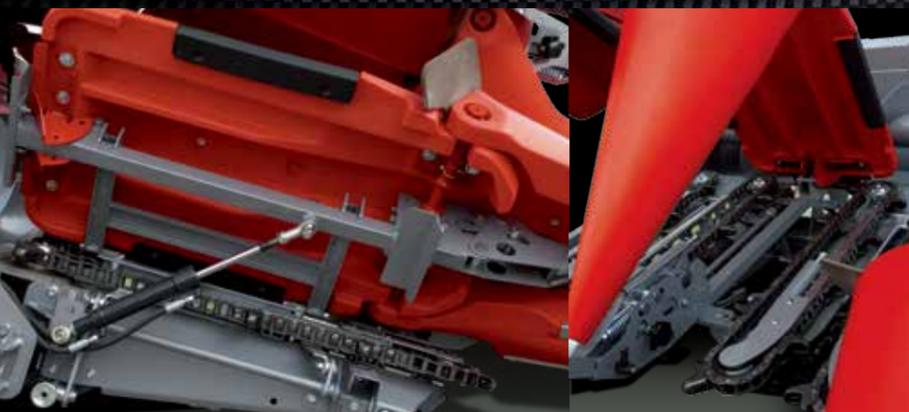
## AN EXCLUSIVE AND PRODUCTIVE DESIGN

The new hoods and points made of highly resistant polymer are marking a further step ahead in the story of CAPELLO corn heads.

The curved design simplifies the material flow in all working conditions and makes the harvest quick and easy. All your expectations will be exceeded! The cleaning of the corn head is easy and quickly done thanks to the possibility that all hoods can be removed with a flick of the wrist without any tools.

In order to deal also with the worst conditions in down corn where it is crucial to keep the head as close to the ground as possible, we developed an automatic system to unhook the divider points: after a hit the system immediately releases the point. This mechanism avoids that the point or any other part of the head is damaged. Expensive reparations and time losses are eliminated.

GREAT VISIBILITY ON THE STREET  
WITH FOLDED MACHINE



Suspension and anti collision system and interchangeable wearing strips.



The removal of the hoods and points doesn't require any special tools which makes the maintenance and cleaning of the machine very easy.

With the DIAMANT even the road driving becomes a pleasure. In fact one of the fundamental characteristics of CAPELLO heads, which always has been a part of their evolution, is the compactness on the street: a point which makes the handling on the road easy and allows a great visibility from the cabin.

# THE PERFECTION OF MECHANICS

The beating heart of the DIAMANT is the row unit: the essence of technology which includes decades of experience in the fields around the globe. The dynamics of a harvest has been watched and analysed step by step and each element has been treated with maximum attention without ignoring even the last detail.

*The gearbox made of aluminium fusion is lighter but more resistant and the lubrication is optimized and constant: state of the art in gearbox technology!*



*The slip clutch in oil bath guarantees the maximum precision to protect the corn head and doesn't require any maintenance.*



*Chain coupler protection to provide a continuous lubrication.*



*Thanks to the new chain tightener the bearings are protected by life long lubrication.*



## BORN WITH STALK CHOPPER

DIAMANT was born with the stalk chopper as a natural symbiosis, becoming visible by the result in the field: a break through, the cleanest and most effective cut as close to the ground as you can get, compared to all heads which "also" have a stalk chopper. Furthermore it's new positioning – on the left side from the driver's seat – eliminates the bothering problems of ventilation and obstruction of the radiator caused by the powder whirled up by the rotors.

The DIAMANT is available also without stalk chopper, it can be applied later in an easy way without a specialized technician. As all CAPELLO heads also the DIAMANT offers the possibility to disengage the stalk chopper when it is not needed (the rotor will be blocked to avoid obstructions during the harvest).



*The new fast moving stalk chopper with two blades is even more efficient and the residues of the stalk are minimal. It can be disengaged and the rotor will be blocked.*

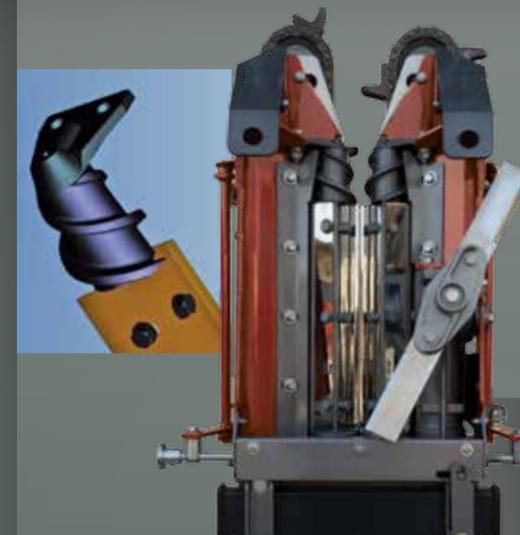


*The rotor is balanced with a bolt protection made of drop forged steel.*

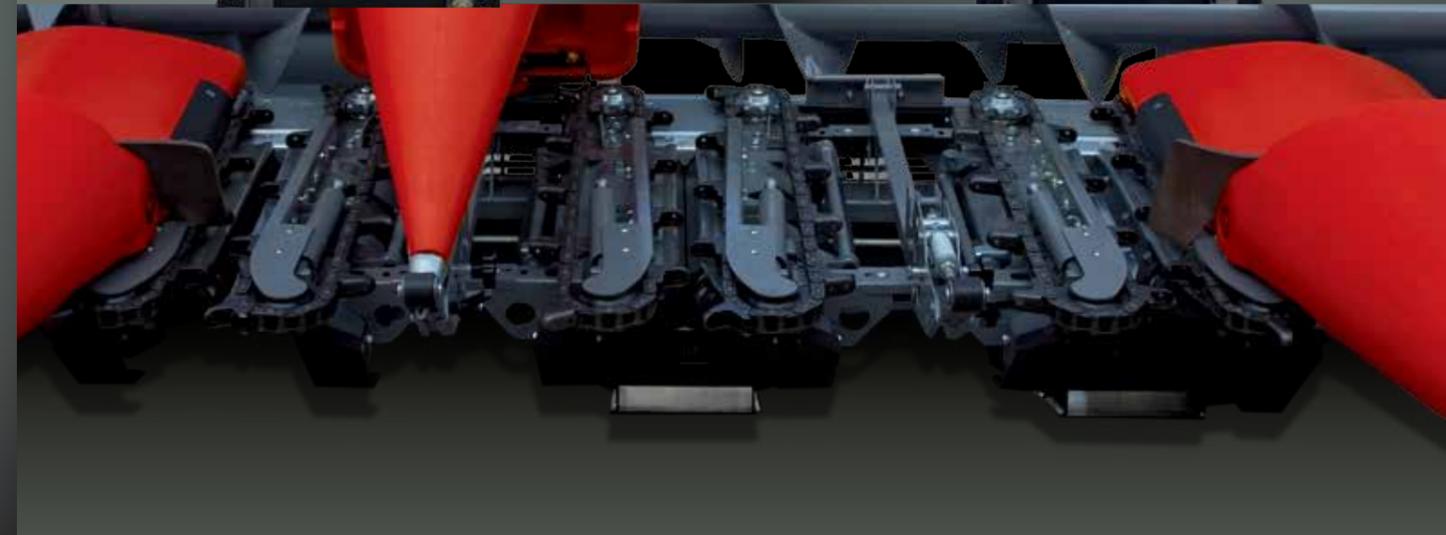


A perfect harvesting system for all needs:  
Knife roller or new generation helical monolithic roller.

The helical monolithic roller is an absolute novelty. It's grip is tight and continuous during the harvesting process: the plant is constantly guided without any chance to slide.



*The position of the stalk chopper avoids the dust to penetrate the combine filters.*

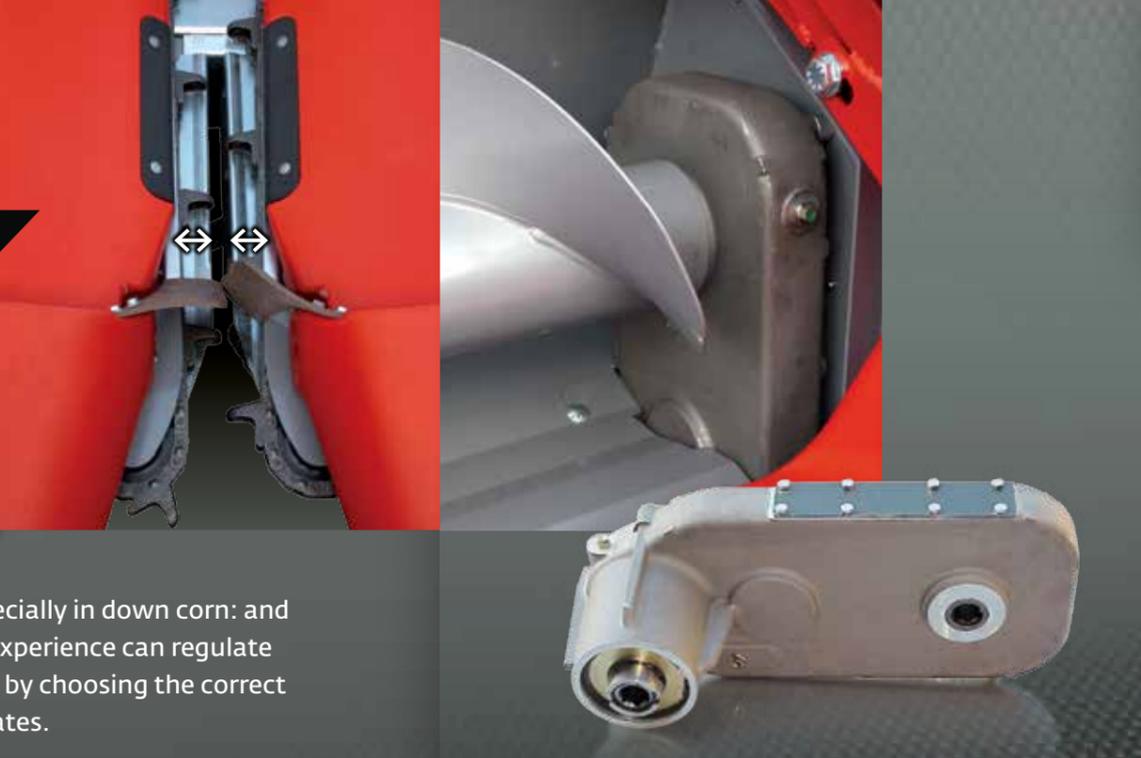


## SYNCHRONISM AND PRECISION

The cutting precision is very high thanks to the synchronized deck plates moving simultaneously, like this the row is always positioned in the centre of the rollers. The processing of the plant till the separation of the cobb is always guided perfectly perpendicular to the ground. This avoids material losses and increases the cleanness of the product. Due to this fact also the performance of the

*The synchronized and simultaneous moving of the deck plates is another new and exclusive feature of the new corn head DIAMANT. Actually both plates move in synchronicity.*

combine is higher, especially in down corn: and the operator with his experience can regulate the harvesting process by choosing the correct opening of the deck plates.



## THE TRANSMISSIONS

*The drive chain is always lubricated thanks to the hermetically closed drive box.*

The gearbox is made of aluminium fusion which undergoes a special treatment and then exceeding all limits of resistance and durability known so far. Inside the steel gears provide with absolute precision the timing and ratios which always marked the strong personality of the Capello heads: a clean, constant and quick harvest.

rocking lever providing always the correct tension according to the working condition also during reverse maneuvers. The aluminium auger drive gearbox contains a floating slip clutch in oil bath keeping the system always clean and lubricated.

Also the transmissions are completely renewed: the shafts have increased dimensions in order to create corn heads with higher performance. The drive chains are completely isolated from the environment and are continuously lubricated. The chain has always the right tension thanks to a chain tightener with



*The chain has always the correct tension thanks to the new design active tensioning device.*





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