

CHALLENGER II **+PLUS**

ROW INDEPENDENT
MAIZE CHOPPER



CELIKEL
www.celikeltarim.com
THE CHOICE OF PROFESSIONALS



Row Independent Maize Chopper is designed specially to harvest various feed plants, forage and corn longer than 1 meter without considering any row in the field thanks to a wide harvester drum unit. The machine performs its task despite difficult harvesting conditions and removes opening row process problem that is seen

at the single row harvesting machines. It never tires your tractor due to its light structure. Its flywheel system comprises of 12 blades and 12 pieces thrower pallets. This feature provides you a perfect cutting quality and long-range blowing. You can be sure of its strong construction which will be durable against hummocks,

holes and every kind of extraordinary condition. There are some significant differences in the new product of ÇELIKEL which makes ÇELIKEL's forage harvester machines indisputable thanks to the long years of experience. Let's see them together;



EXPERIENCE THE EXCELLENCE OF CHALLENGER 2 PLUS

Row independent maize chopper is renewed and redesigned for the flexibility, strength and aesthetic by Çelikel Agricultural Machineries' engineers especially for farmer's comfort.

Challenger 2 Plus succeed as a leader among the row independent choppers when the way of abilities and materials quality considered. You will enjoy chopping without thinkin about the fuel consumption and power requirement for both of these essentials' values are very little. No more need for big tractors. We are happy with the Challenger 2 Plus' total renovations in strengthening and quality improvements of drum system, intaker unit, gearbox, cutter knives, thrower pallets by Çelikel.



MORE WORK WITH LESS POWER NEEDS

The most common problem of the gearbox system is, not having perfect setting and adjustment for gear notches and revolution of synchronic gears. As a result of this problem; tractor power is decreased remarkably and the performance and efficiency is going down sharply. The gears that we use come out with long improvement studies as structurally and mechanically. We developed a system for our farmers to reach the ideal capacity and required work, without losing power with utmost efficiency. To work with the row independent chopper with small tractors which was a dream has become a reality with Challenger 2 Plus.



MAIZE LAYER

Layer system is a system which can direct the maize to the cutting drum during the chopping. This system has a special feature to make silage without damaging, spilling and laying the product under the machine. It can help to chop hard and tall maize.



EXTRA STRENGTH

Challenger 2 has an integrated structure which can be separated by means of shapes and usage of the equipments. We reached this structure with the maximum level reinforced equipments. This extra strengthened structure and flexible form is adaptable to all land conditions. Challenger 2 Plus is produced to reach farmers' goals in the shortest and best way.



ENVIRONMENTALIST WITH %20 LESS FUEL

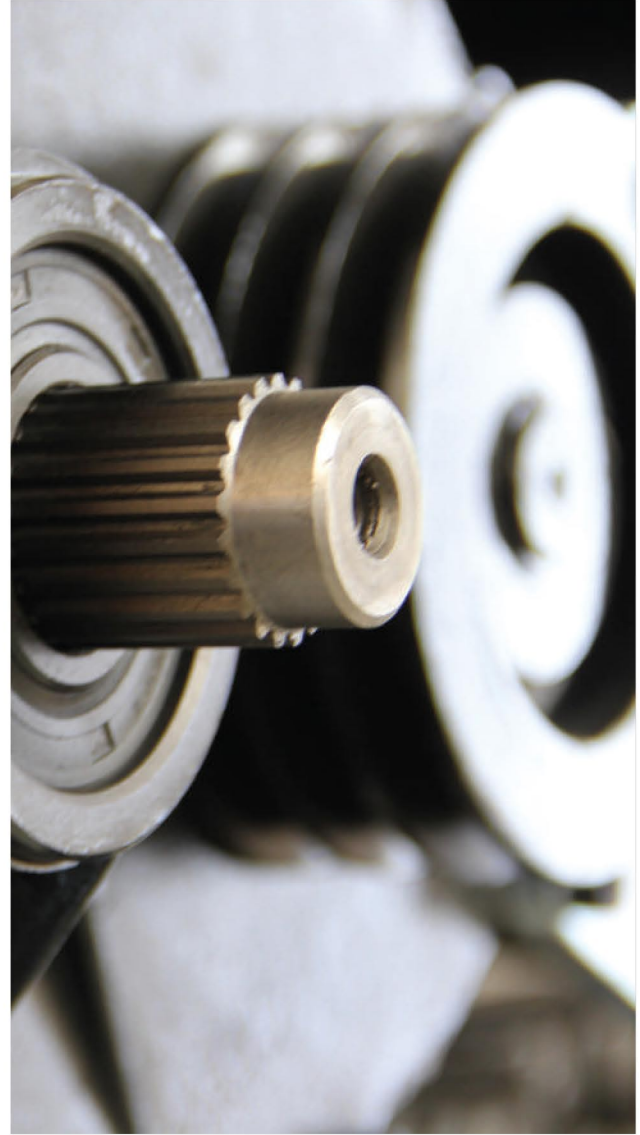
Challenger 2 Plus has many renovations and extra saving opportunities for farmers. The most important point among these opportunities is the less fuel consumption between 15 - 20 % comparing with the other ones. Challenger 2 is refaced as environmentally friendly machine, by the reflection and result of experience and professionalism on the single row maize chopper.





PERFECT ACCORDANCE OF BELTS AND PULLEYS

PTO driven gears on machine works perfectly. Power is transferred by the pulley and belts which can easily be supplied if the farmer needs spare parts, maintenance and repair. The pulleys are under guarantee for the quality and the strength. In terms of stability and efficient work; pulley adjustments and belt setting angles are vital. This transmission equipment is made and processed on high precision CNC machines by the real professional.



GEAR AND GEARBOX SYSTEMS

There are four gearboxes on the machine which have different functions. Gearboxes are spheroid cast iron which has high draw resistance. The bearings used in gearboxes are Japan made quality ones. The gear in transmission is made of 7131 quality steel which is specially hardened for this function. Also it was tested for warming up and their fraction by specialists and engineers. Each gearbox has been strengthened for their function and specially lubricated for longer life. As a result Challenger 2 Plus has more efficiency sustainability and continuity.



OPTIMUM SILAGE QUALITY

Silage quality is vital for digestion, for pressing bales, biogas facilities. Challenger 2 Plus has reached a perfect result for the problem of not chopping the maize grain, corncob, not grasping the maize grain by the way of +chop system developed by Çelikel. You can make silage how you need thanks to adjustable chopping length unit which you can regulate by yourself easily.



ROW INDEPENDENT SYSTEM

Because of the irregular seeding, the distance between rows is not equal and this is a big problem for single and double row chopping machines. But with the row independent maize chopper you can chop any kind of plant as single row, double row or irregular rows easily. You can chop by single row maize chopper only one row, by two row maize chopper you can chop two rows however by independent row maize chopper with 125cm working width you can chop any kinds of plants without considering seeding row.



SUPERBLOW: BEST TECHINC FOR BLOWING

One of the blowing technologies of Çelikel; Superblow is the system developed as a result of perfect compliance of throwing pallets and outtake chute, according to all the farmers' need and wish. Our mission here is enabling you to reach high loading capacity by increasing the performance of throwers and blower.



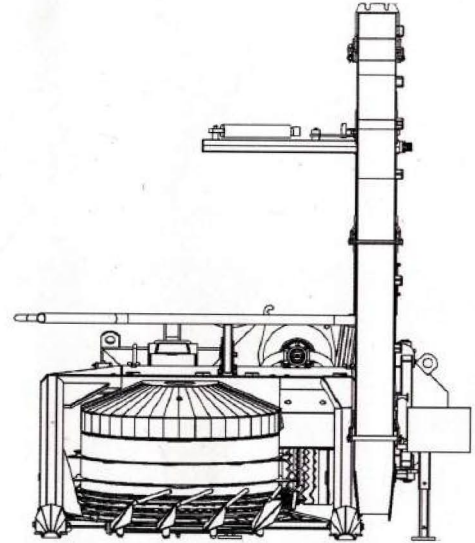
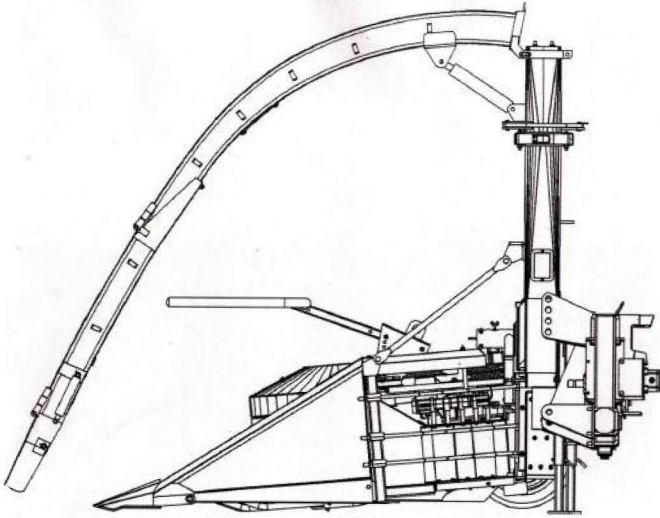
AUTOMATIC SHARPENER

The cutter knives on the machine are covered with tungsten carbide. The material of alloy has high resistance for abrasion and heat which extends the durability. Sharpening the cutter knives at regular intervals is very important for reaching the ideal quality silage and the top working performance. Sharpening unit on the machine is designed for easy use. Farmers can sharpen the knives easily by opening the automatic sharpener cover without any extra labour within a few minutes.



PATENTED BELT TENSION SYSTEM

The belt in flywheel gear on the row independent maize chopper had errors of design and systematic error in consideration of tie system. The disadvantage of the old tie system is; placed one side of the gear, but now, placed on both sides. This handicap caused a lot of problems such as sliding the belt, cutting the belt, blocking the machine, not blowing, not intaking the product etc. It needed to take off the covers for step in the tie system. But now, we solved this problem with a portable screw system by taking the tie system out of machine. This system is developed by Çelikel and taken international copyright protection.



PRODUCT TECHNICAL FEATURES

Work Width (cm)	125
Length (cm)	280
Height (cm)	395
Width (cm)	332
Folded Width (cm)	196
Weight (kg)	1100
Number of Thrower Pallets	12
Number of Cutter Blades	12
Wheel Size	155/70 R13
Tractor Working Positions	Front/Rear/Side
PTO Rpm	540 rpm
Power Requirement	75 Hp
Chop Size	4 mm
Work Capacity	40-50 ton/hour

