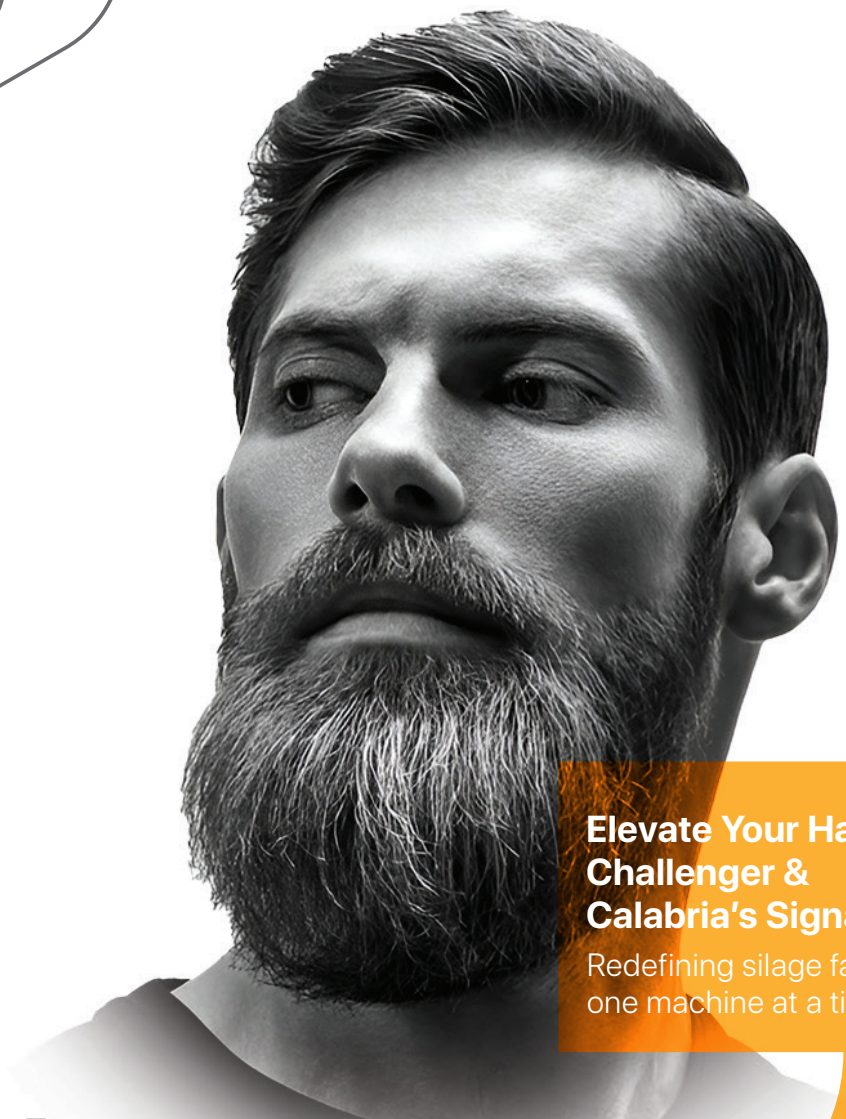
CELIKEL™



Elevate Your Harvest: Challenger & Calabria's Signature

Redefining silage farming, one machine at a time.

Challenger & Calabria

FORAGE HARVESTERS & DOUBLE CHOP FORAGE HARVESTERS

the choice of PROFESSIONALS

Challenger!
The most successful machine in the Turkish agricultural machinery sector!

In addition to experience, the production of silage machines requires overcoming complex processes in order to increase productivity. Challenger forage harvesters are designed to overcome this difficult processes with an understanding of how important corn and maize silage is to livestock farming.





CHALLENGER
COMPETITION IS OVER

Providing maximum performance with minimum energy consumption is the main characteristic of Çelikel. Challenger® family offers high harvest with low fuel consumption with its light weight and strong transmission system without exhausting your tractor.

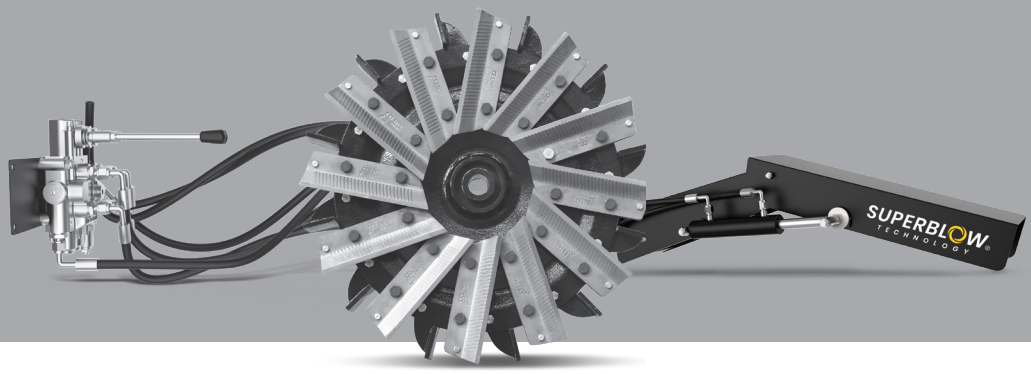
Safety is first! Challenger® series is designed in a way that it does not contact with the ground thus keeping the risk of foreign matters getting into the machine at minimum. But we still keep in mind that such a thing can happen, the security is a big part of work at Çelikel® engineering forage harvester. By doing this, we prevent potential damages from happening.

Patented Flywheel

Specially designed 12 pieces of flywheel knives are strong against wear and made of high quality materials. Therefore the necessity of frequently replacing knives is prevented. Twelve specially designed circular knives of the flywheel are made from high quality materials to minimize the necessity of frequently replacing knives.

Independent Hydraulic

In addition to being economical, Çelikel follows the principle of realizing a top-class product in terms of the options included in the package. This is why the Challenger is equipped with a fully independent hydraulic system.



In the flywheel system of the machine there are specially designed sweeping paddles. These paddles are sweeping all the silage inside the machine.

Challenger®'s strong blowing system can blow all the silage to the desired area in the trailer with hydraulically controlled funnel and cover.

One of the most important factors in maize silage is that the maize should be cut and shredded but still remain juicy. Challenger® has the best possible system and equipment to execute this action.

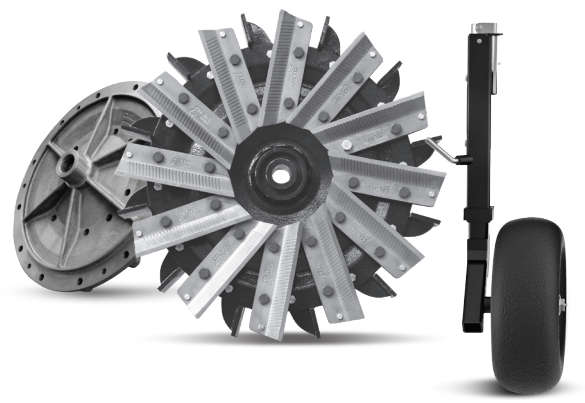




Small and mid scaled businesses' professional solution CHALLENGER® 1 can harvest up to 1500 m² per hour with only 40 hp power requirement. Also due to its hydraulically controlled directed head and funnel system it can direct the silage to the desired area in the trailer with strong blowing system 'Superblow'.

The Challenger forage harvester doesn't overload your tractor with its lightweight design and powerful transmission, and it also delivers more silage harvesting with less fuel. A single row forage harvester capable of forming one row of maize delivers high levels of productivity thanks to its fully hydraulic control system. The flywheel system consists of 12 chopping knives and 6 guide paddles.





Flywheel Knives

Specially designed 12 pieces of flywheel knives are strong against wear and made of high quality materials. Therefore the necessity of frequently replacing knives is prevented.

Level Detection Tyre

Safety is an important aspect of production! The level tracking sensor, developed by Çelikel engineers is made specifically to ensure that the machine is not in the contact with the ground so it minimizes the amount of foreign materials which get into the machine.

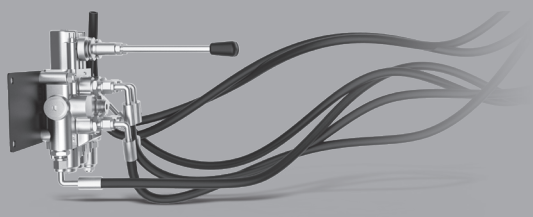
Security Pin

Bütün alıcı ünite emniyet sigortası tarafından garanti altına alınmaktadır. Blokajın gerçekleşmesi veya makinenin içerisine yabancı bir cismin girmeye çalıştığı anda emniyet sigortası makinenizin zarar görmesini engellemektedir.



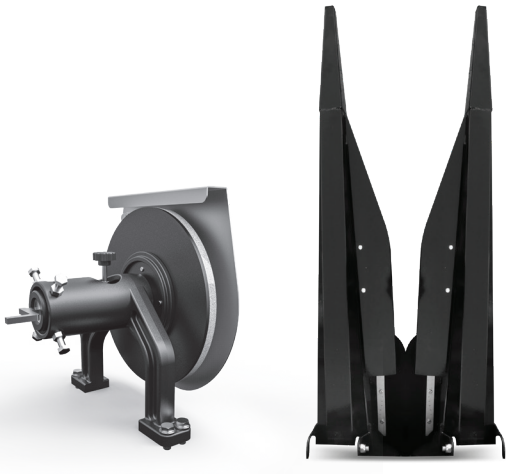
Independent Hydraulics

The entire drive unit is protected by a safety fuse. Should a blockage occur or a foreign object attempt to enter the machine, the safety fuse prevents damage to your machine.









Knife Grinding System

Çelikel® provides the most efficient and accurate silos grinding method. Challenger provides the most efficient and accurate grinding along with their automatic knife sharpening technology.

Intake System

Challenger® 1 brings down tall maizes and reduces crop loss to minimum due to row following system. Thanks to its improved flywheel system it makes it easy to reach the highest harvest efficiency possible.

Challenger 2

Challenger 2® Row Independent Forage Harvester is designed to harvest maize and various feed plants which are taller than 1 meter disregarding the row thanks to the wide reaping rollers unit.

360° DÖNER BACA

%25a YAKIT TASARRUFU

75 HP





The machine executes its task even in difficult conditions. It does not exhaust your tractor due to its lightweight. You can be sure that its strong construction will handle pits, bumps and all the other extraordinary conditions.

Corn Grain Breaking

As Çelikel® we care about your animals' daily nutrition and energy needs. To increase the efficiency of maize silages you make we added corn grain breaking feature to Challenger 2®.

Patented Belt System

Gears in the machine are supposed to take the power they have received from the PTO to make sure the machine is running smoothly. Power transmission through the gears are being done by hoops and belts and thus helping the user with spare parts, maintenance and repair.

Superblow

Çelikel® created a system that has been added with fully balanced operation of the sweeping paddles and the inlet of the hydraulic funnel, thereby increasing the blowing force. Also we aimed to provide you with the efficiency that you desired by increasing the blowing capacity and the performance of sweeping paddles.

Independent Hydraulic System

In addition to being economical, Celikel follows the principle of realizing a top-class product in terms of the options included in the package. Therefore, Challenger® is equipped with completely independent hydraulic system.



CHUTE EXTENSION





FOLDABLE CHUTE



Patented Flywheel

Flywheel system consists of 12 piecesof knives and 12 pieces of sweeping paddles. Thanks to these you will have perfect cutting quality and long range blowing.

540-750-1000 Rpm Choices

The independent two-row forage harvester, adaptable to different tractors, offers attachment options to the front, rear and side of the tractor. With transmission RPM options such as 540, 750 and 1000, it enables the most efficient operation.

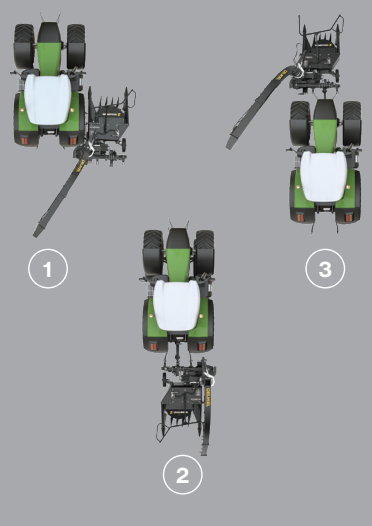
360° Rotating Funnel

In all the other equipments, rotation of the funnel is limited only to 90° but in Challenger® it has been increased to 360° thanks to the new clamp system.



3 Different Ways To Work

Challenger 2® offers alternative harvest methods alongside with regular ones. This machine has the ability to be mounted in the front, on the sides and at the back of the tractor to harvest. Foldable chassis: It is easy, practical and functional to fold and unfold. In addition, the fixing of the machine in the desired position is carried out only with the help of the cover, which prevents loss of time and labor costs.



Challenger 3

It is the most desirable machine of the industry.

Presenting you the new partner in your business: CHALLENGER 3®. Everything you ever wanted is in this machine!



Some customers want it because of its appearance. Some want it because of what others say about it. Some other people want it for its performance. Other clients want it for prestige. Some customers want it because selling it second hand is a bargain. Some does not need an excuse, they just want it:

The most successful machine of agriculture industry in Turkey! CHALLENGER®!

Superblow®

Due to its 360-degree rotating hydraulic funnel and controllable cover, it can load the silage into specific parts of the trailer due to its powerful blowing system.

Patented Flywheel®

The flywheel system consists of 12 excellent cutting knives and 12 sweeping paddles. This adds a powerful blowing and perfect chopping quality.



CHUTE EXTENSION





FOLDABLE CHUTE





Two Different Working Direction

Challenger 3® offers users different harvest alternatives. This versatile machine is able to harvest in the front of the machine and at the back of the machines.







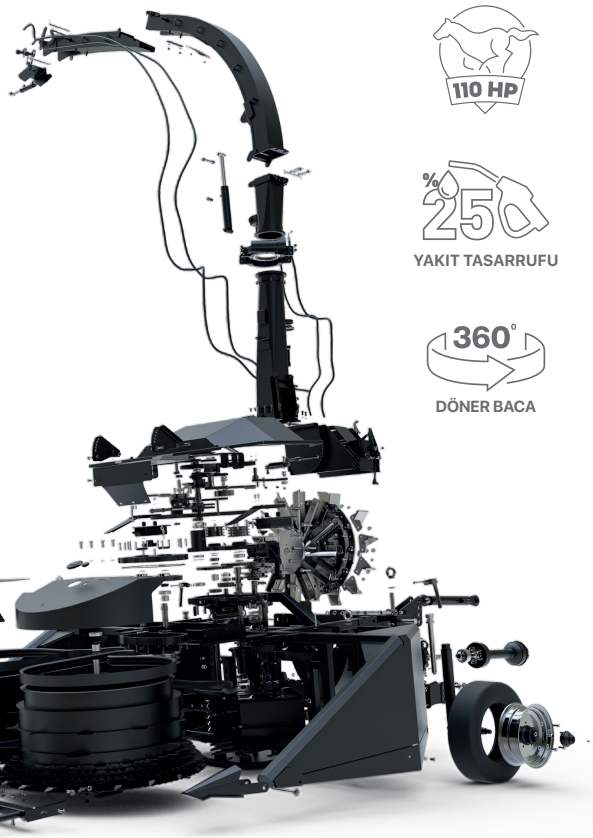
Low Power Requirement

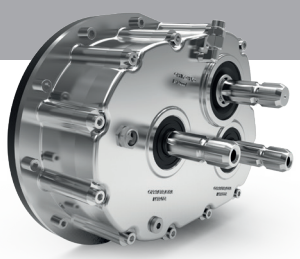
Presenting you the one and only forage harvester which can be run by only 110HP. Once again Çelikel® proves that big machines can also be worked with low power requirements by its engineering abilities.

540-1000 Rpm Choices

Challenger 3® has 3 different PTO options offered in its default hardware. As Standard, it can be used both in the front and at the back of the tractor. This harvester can run at 540 rpm or 1000 rpm without any modifications.

The Challenger 3 describes the perfect harmony of 2720 pieces, and this harmony sets it apart from its competitors, making it unique.





Challenger 4

Challenger 4 is Çelikel's latest marvel in agricultural machinery. With a working capacity of 5000-6000 m²/hour and a working width of 280 cm, it offers faster, more efficient, and more powerful harvesting. Requiring a minimum of 110-140 hp, it reduces your costs by providing low energy consumption.

140 HP



Independent Cutting Drums

The Challenger 4® Series uses a balanced chassis and cutting drums. With balanced and sharp-bladed independent cutting drums, you will be able to harvest crops effortlessly, even in the most challenging conditions.



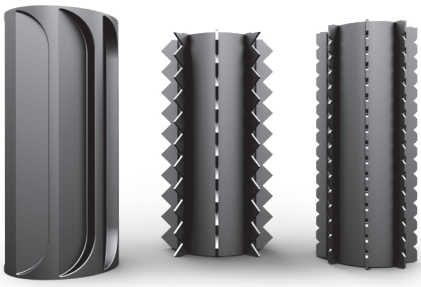
Advanced Safety System

The advanced safety system prevents overloading of the machine's other transmission components by activating the clutch system within the gearboxes when blockages or jams occur in the cutting mechanism during harvesting. This ensures protection while the harvested product is still at the machine's intake.



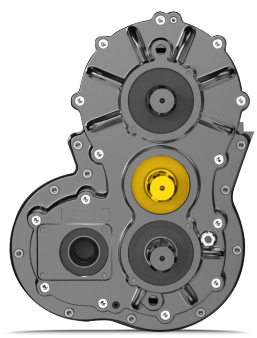
Chopping Length Adjustment

Thanks to the geared transmission of the Challenger® 4, you can adjust the chopping length as desired by speeding up or slowing down the machine.



Inspired by the scorpion, the world's most durable and fastest creature, Challenger® 4 was developed by Çelikel engineers. For 60 years, we've been designing and producing new machines almost every year. This year, we proudly present the Challenger® 4! It is the aristocrat of forage harvesters. With the strength we've drawn from our past experiences, we've built tomorrow's machine today! What Challenger® 4 will make you feel at first glance are continuity, the reflection of contemporary style on steel, and the irresistible allure of aesthetics. Once you see the Challenger® 4, you'll understand exactly what we mean. In fact, you might even think we didn't describe it enough!

Presenting the first and only four-row forage harvester in its industry that can operate with 140 hp power. Once again, Çelikel® proves that even large machines can work efficiently with low power requirements, thanks to its engineering expertise.







Reverse Ejection

In case of a blockage during operation, the gearbox's reverse ejection feature allows you to run the machine in reverse, enabling you to easily resolve the issue.

Geared Transmission

The unique transmission of the Challenger® 4 operates with 4 forward and 4 reverse speed options, allowing you to adjust the front drum speeds according to corn yield. With the Challenger® 4, effective forage harvesting is completely under your control.

Superblow®

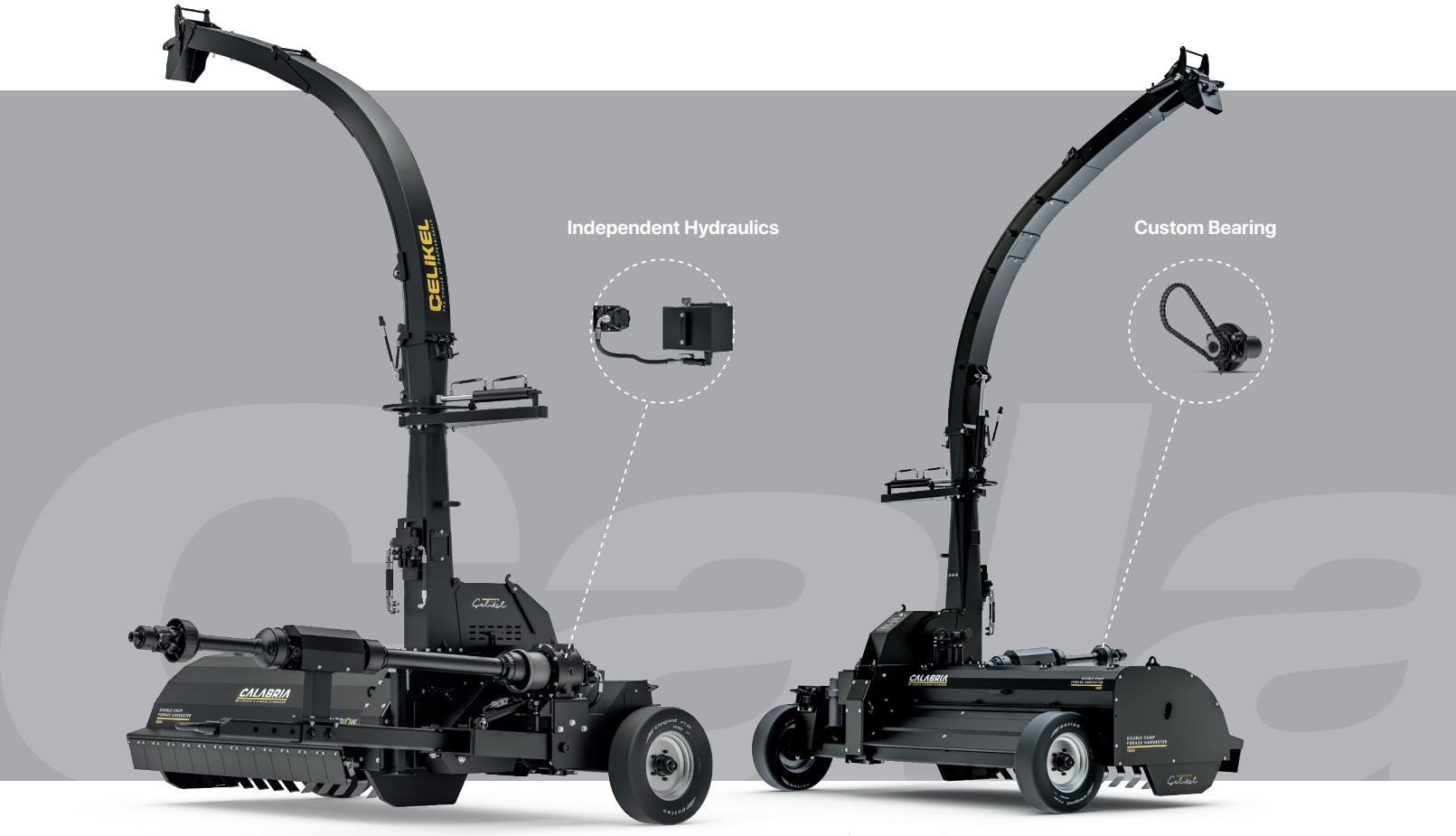
With its 360-degree rotatable, hydraulically controlled chute system and adjustable cap, the Challenger® 4 can load silage into any desired area of the trailer using its powerful blower system.



Calabria

Everything started by a farmer wanting the perfect forage harvester from Çelikel®.

With the shortest chopping height and the best lowing ability, Calabria® is built with S235 steel materials.



SPECİALLY DESİGNED BEARİNGS

The Calabria Plus® system uses 20,000 series bearings designed by Çelikel®. These bearings have been adapted for installation on flywheels, rotors, shafts, and augers, ensuring maximum safety in work areas subject to vibrations.





Harvesting Wilted Forage

Wilted forage is a healthy and important source of nutrition for your animals. Calabria Plus® can harvest wilted forage thanks to its ability to chop it very short. It can cut wilted forage more easily than competing models.

CALABRIA
WE CREATE A HIGHER STANDARD

PLUMBİNG SYSTEM

Calabria Plus offers a range of hydraulic systems suitable for all users, including both tractor-powered and self-contained hydraulic systems.

IMPROVED TRANSMİSSİON MOUNTİNG

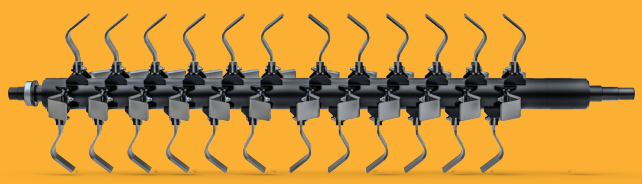
The possibility of axial misalignment between the transmission and the flywheel due to potential level differences during transmission installation has been eliminated.del riduttore.



Patented flywheel system

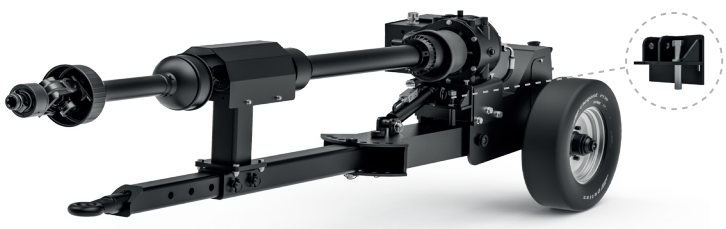
Calabria® uses specially designed rotors and fan blades, developed based on flow analysis. Achieving the desired shredding size is now much easier. Thanks to the wider fan blades and the patented blade system, Calabria® has outperformed its competitors by significantly increasing its blowing capacity, enabling much finer shredding.





Patented Rotor System ®

In designing the Calabria Plus® rotor system, we went beyond the usual standards. Thanks to its specially designed blades, it cuts forage with minimal loss.



Adjustable cutting height

Thanks to the Calabria Plus® hydraulic cylinders, you can easily adjust the machine's height above the ground based on soil conditions, without having to get off the tractor. Furthermore, thanks to the cutting height adjustment mechanism, the grass is picked up very close to the ground, chopped, and conveyed to the flywheel.

FEATURES	CHALLENGER 1	CHALLENGER 2	CHALLENGER 3	CHALLENGER 4
WORK WIDTH	70 cm	125 cm	210 cm	280 cm
WORK CAPACITY *	1000 - 1500 m^2/ hour	4000 - 4500 m^2 / hour	4500 - 6500 m^2 / hour	5000 - 6000 m^2 / hour
MINIMUM POWER REQUIREMENT**	28 kW (40 hp)	56 kW (75 hp)	80 kW (110 hp)	100 kW (140 hp)
PTO OPERATING SPEED	540 RPM	540 / 750 RPM (Optional)	Optional	Optional
WORKING POSITION	Right Side	Front (Optional) / Right Side / Back	Front / Back	Back (Standard), Front (Optional)
NUMBER OF THROWER PALLETS	6	12	12	12
NUMBER OF CHOPPER BLADES	12	12	12	12
NUMBER OF SHREDDER BLADES	12	12	12	12
NUMBER OF FIXED BLADES	1	1	1	1
SHREDDING SIZE***	3 - 10 mm	ADJUSTABLE (3 - 10 mm)	ADJUSTABLE (3 - 10 mm)	ADJUSTABLE (3 -10 mm)
WHEEL SIZE	16X6,5-8	165x70x13	10.0/80-12-UN5	10.0/80-12-UN5
NUMBER OF WHEELS	1	1	2	2
THREE POINT SUSPENSION SYSTEM	Category II	Category II - III	Category II - III	Category II - III
LENGTH (WORK POSITION)	2380 mm	2679 mm (Side position) 2750 mm (Back position)	2400 mm	2580 mm
LENGTH (ROAD POSITION)	1185 mm	2750 mm	3300 mm	3630 mm
HEIGHT (WORK POSITION)	3175 mm	4130 mm	4675 mm	4750 mm
HEIGHT (ROAD POSITION)	2122 mm	2460 mm	2900 mm	2995 mm
WIDTH (WORK POSITION)	2355 mm	4190 mm	4625 mm	4835 mm
WIDTH (ROAD CONDITION)	2355 mm	1985 mm	2430 mm	2920 mm
WEIGHT	600 kg	1350 kg	1520 kg	1800 kg
INDEPENDENT HYDRAULIC	-	Standard	-	Optional
HYDRAULIC CONTROL LOCATION	-	Next To Operator (Inside The Cabin)	-	Standard
NUMBER OF CIRCLE BLADES	-	6	6	12
GRAIN CRUSHER AND SHREDDING SYSTEM	-	On Top Of Special Design Chopping Knife, - Shredding Knives, - Optional Inside Reservoir Ggg60, - Cast Breakers	On Top Of Special Design Chopping Knife, - Shredding Knives, - Optional Inside Reservoir Ggg60, - Cast Breakers	On Top Of Special Design Chopping Knife, - Shredding Knives, - Optional Inside Reservoir Ggg60, - Cast Breakers
SAFETY SYSTEM	-	Power Transmission Belt	Power Transmission Belt	Dual Power Transmission Belt
MACHINE MOTION TRANSMISSION	-	Gearbox and Flexible Trans- Mission Combination	Gearbox and Flexible Trans- Mission Combination	Gearbox and Flexible Trans- Mission Combination
HYDRAULIC CENTER ARM	-	Standard	Standard	Optional
TEMPORARY REVERSE OPERATION	-	-	-	Standard

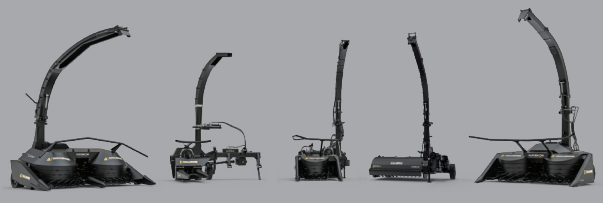
FEATURES	DOUBLE CHOP 1500	DOUBLE CHOP 1800	DOUBLE CHOP 2100
POWER REQUIREMENT (MIN – MAX)	45 - 60 hp	60 - 80 hp	80 - 100 hp
WORK WIDTH	1500 mm	1800 mm	2100 mm
NUMBER OF ROTOR BLADES	36 pcs	48 pcs	56 pcs
NUMBER OF CHOPPER DISC BLADES	10 pcs	10 pcs	10 pcs
NUMBER OF THROWER PALLETS	10 pcs	10 pcs	10 pcs
WHEEL SIZE	185x65XR14	185x65XR14	185x65XR14
ROTOR SPEED NUMBER	2250 rpm	2250 rpm	2250 rpm
CHOPPING DISC RPM	1620 rpm	1620 rpm	1620 rpm
WEIGHT	1150 kg	1330 kg	1475 kg
TO SHAFT RPM	540 rpm	540 rpm	540 rpm
WORK CAPACITY*	20 ton / hour	25 ton / hour	30 ton / hour
WIDTH (WORK POSITION)	3555 mm	3985 mm	3985 mm
HEIGHT (WORK POSITION)	4030 mm	4290 mm	4380 mm
LENGTH (WORK POSITION)	3050 mm	3050 mm	3050 mm
WIDTH (ROAD POSITION)	3400 mm	3450 mm	3420 mm
HEIGHT (ROAD POSITION)	2730 mm	2730 mm	2730 mm
LENGTH (ROAD POSITION)	3050 mm	3050 mm	3050 mm
CHOPPED SIZE (ADJUSTABLE)	20 - 70 mm	20 - 70 mm	20 - 70 mm
MOWING HEIGHT (ADJUSTABLE)	50-150 mm	50-150 mm	50-150 mm

As promised...

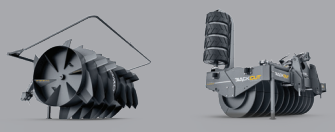
The New Challenger 4



You can review Çelikel's other product groups and details on our website.



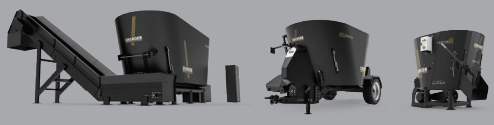
Silage Machines



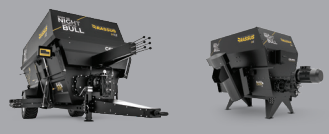
Silage Spreader & Compactor



Packaging Machines



Vertical Feed Mixers



Horizontal Feed Mixers



Large Square Balers



Manure Management Machines



Silage Baler & Packaging Machine
Cotton Baler & Packaging Machine



Feed Production System

Experience, Dedication, and a Global Vision. Join Us!

We share values of quality, trust, and growth with our partners.

Are you interested? Let's talk!
Partnership today. Leadership tomorrow.

NEXT LEVEL
Partner with us today!

CELIKEL

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the choice of PROFESSIONALS

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