



**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.

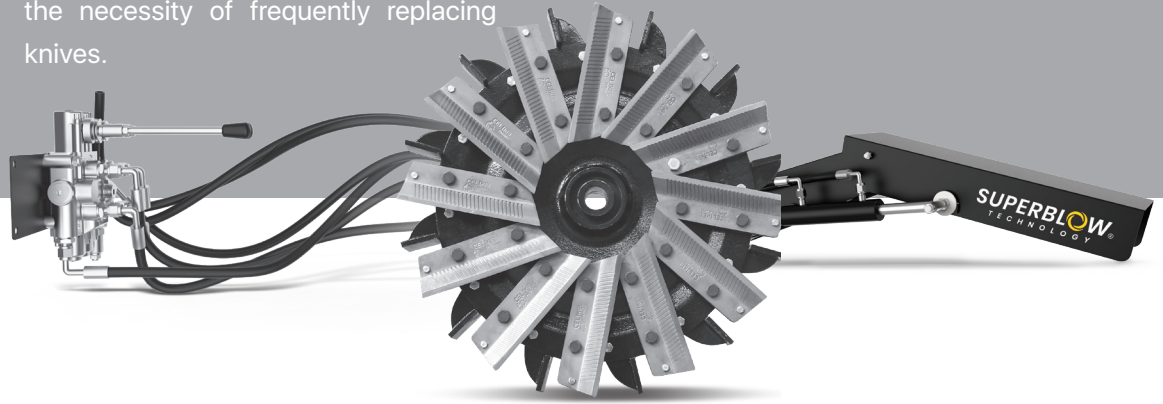


Providing maximum performance with minimum energy consumption is the main characteristic of Çelikel. Challenger® family offers high harvest with low fuel consumption with its light weight and strong transmission system without exhausting your tractor.

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.



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.

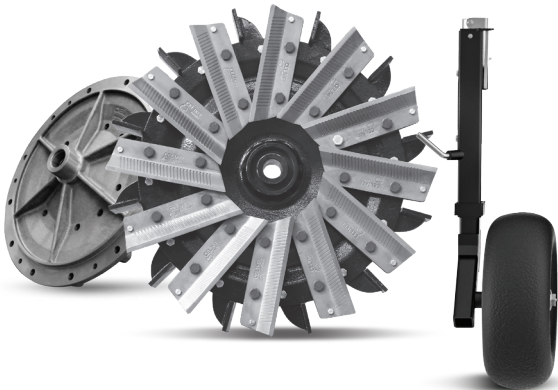


Flywheel Knives

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

All the intake unit is protected by the safety pin. Security pin prevents your machine from getting damaged in case of a soil compaction or foreign materials getting into the machine.

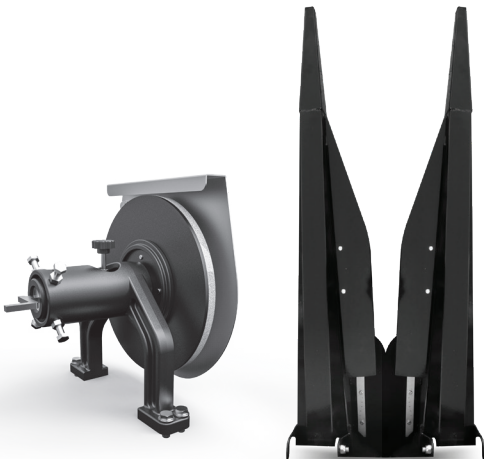


Knife Grinding System

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.



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.



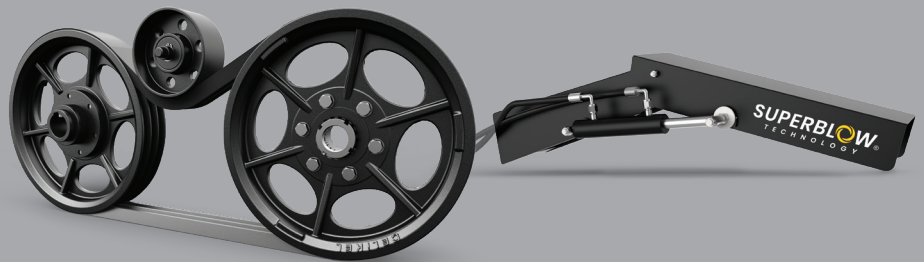
ROTATING FUNNEL



FUEL SAVING



75 HP



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.

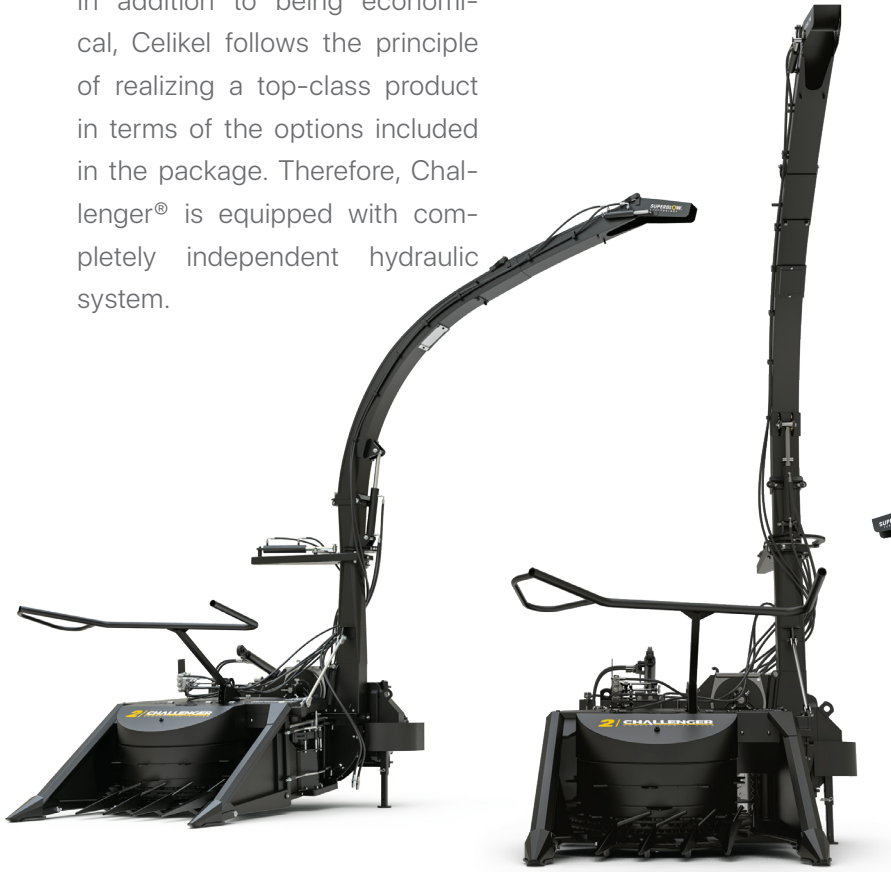
Superblow

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

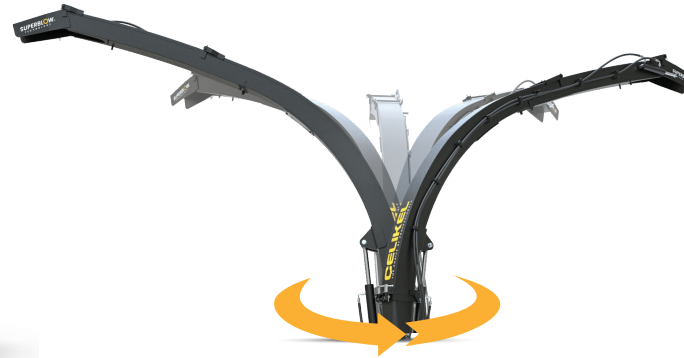
In addition to being economical, Celikel follows the principle of realizing a top-class product in terms of the options included in the package. Therefore, Challenger® is equipped with completely independent hydraulic system.



CHUTE EXTENSION

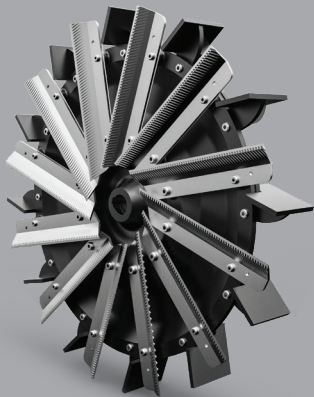


FOLDABLE CHUTE



Patented Flywheel

Flywheel system consists of 12 pieces of 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

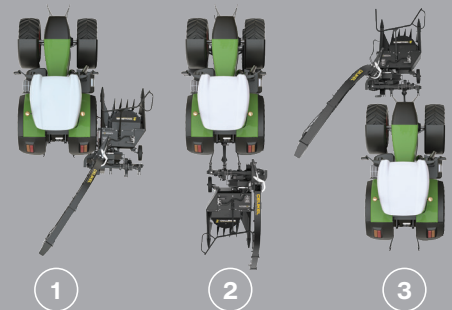
The independent two-row forage harvester, adaptable to different tractors, offers attachment options to the front, rear and side of the tractor. With transmission RPM options such as 540, 750 and 1000, it enables the most efficient operation.

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.



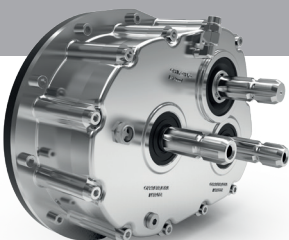
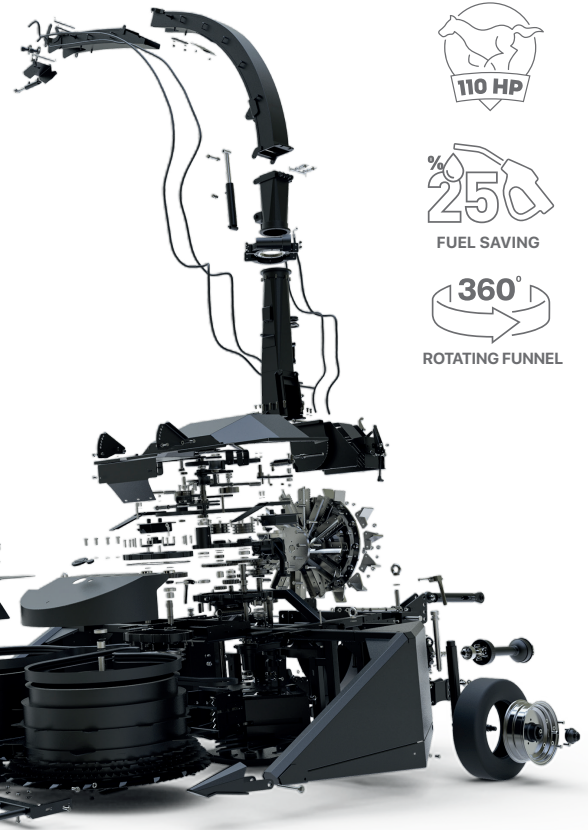
Low Power Requirement

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.



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.



Patented Flywheel System ®

Calabria Plus® has reached the ability to chop even shorter compared to its competitors with its increased width of sweeping paddles and patented knife system.

Sensitive Chopping Size

We used specially designed and developed rotor and flywheel knives in Calabria Plus® with the results from flow analyses. Now it is easier to set the cutting size of the forage in the desired measures.

Reaping Withered Forage

Withered forage is healthy and important source of feed for your animals. Calabria Plus® can reap the withered forage thanks to its ability to chop extra short. It can cut the withered forage easier than its competitors.

Adjustable Reaping Height

Thanks to the hydraulic cylinders in Calabria Plus®, you can easily adjust the height of the machine from the ground according to the terrain conditions, without getting off the tractor. In addition, with the cutting level adjustment mechanism, you collect the grass on the ground from a very short distance from the ground, shred it and transfer it to the flywheel.

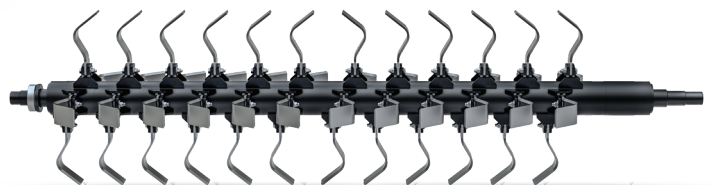


Special Design Bearing Çelikel® design 20.000 series bearings were used in Calabria Plus®. This bearing has been adapted to flywheel, rotor, shaft and auger bearings, providing maximum safety in vibrating work areas.



Patented Rotor System ®

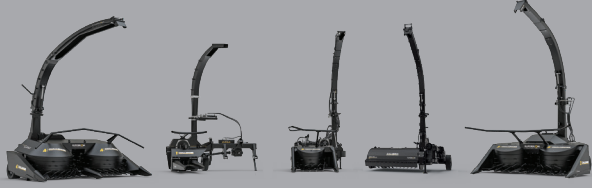
While designing rotor system in Calabria Plus® we have gone beyond the usual. It cuts the forage with minimum loss thanks to its specially designed knives.



FEATURES	CHALLENGER 1	CHALLENGER 2	CHALLENGER 3	CHALLENGER 4
WORK WIDTH	70 cm	125 cm	210 cm	300 cm
WORK CAPACITY *	1000 - 1500 m ² / hour	4000 - 4500 m ² / hour	80 kW (110 hp)	8000 - 10000 m ² / hour
MINIMUM POWER REQUIREMENT**	28 kW (40 hp)	56 kW (75 hp)	80 kW (110 hp)	100 kW (135 hp)
PTO OPERATING SPEED	540 RPM	540 / 750 RPM (Optional)	540 / 1000 RPM	1000 RPM
WORKING POSITION	RIGHT SIDE	FRONT (Optional) / RIGHT SIDE / BACK	FRONT / BARK	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	3
SHREDDING SIZE***	3 - 10 mm	ADJUSTABLE (3 - 10 mm)	ADJUSTABLE (3 - 10 mm)	ADJUSTABLE (4,3 - 33 mm)
WHEEL SIZE	16X6,5-8	165x70x13	165x70x13	21 x 8 - 9 NHS
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)	2600 mm	2920 mm
HEIGHT (WORK POSITION)	3175 mm	4130 mm	4165 mm	4375 mm
HEIGHT (ROAD POSITION)	2122 mm	2460 mm	2475 mm	2703 mm
WIDTH (WORK POSITION)	2355 mm	4190 mm	4115 mm	3055 mm
WIDTH (ROAD CONDITION)	2355 mm	1985 mm	2420 mm	3055 mm
WEIGHT	600 kg	1350 kg	1520 kg	2350 kg
INDEPENDENT HYDRAULIC	-	Standard		Standard
HYDRAULIC CONTROL LOCATION	-	NEXT TO OPERATOR (INSIDE THE CABIN)	-	-
NUMBER OF CIRCLE BLADES	-	6	6	
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	-
SAFETY SYSTEM	-	POWER TRANSMISSION BELT	POWER TRANSMISSION BELT	
MACHINE MOTION TRANSMISSION	-	GEARBOX AND FLEXIBLE TRANS- MISSION COMBINATION	GEARBOX AND FLEXIBLE TRANS- MISSION CPMBINATION	-
HYDRAULIC CENTER ARM	-	Standard	Standard	
TEMPORARY REVERSE OPERATION	-	-	-	Standard

FEATURES	DOUBLE CHOP 1500	DOUBLE CHOP 1800	DOUBLE CHOP 2100
POWER REQUIREMENT (MIN – MAX)	45 - 60 kW	60 - 80 kW	80 - 100 kW
WORK WIDTH	1500 mm	1800	2100
NUMBER OF ROTOR BLADES	36 pcs	48 pcs	56 pcs
NUMBER OF CHOPPER DISC BLADES	10 pcs	10 pcs	10 pcst
NUMBER OF THROWER PALLETS	10 pcs	10 pcs	10 pcs
WHEEL SIZE	165X70XR13	165X70XR13	165X70XR13
ROTOR SPEED NUMBER	2250 rpm	2250 rpm	2250 rpm
CHOPPING DISC RPM	1620 rpm	1620 rpm	1620 rpm
WEIGHT	925 kg	975 kg	1045 kg
TO SHAFT RPM	540 rpm	540 rpm	540 rpm
WORK CAPACITY*	20 ton / hour	25 ton / hour	30 ton / hour
WIDTH (WORK POSITION)	2535 mm	2835 mm	3135 mm
HEIGHT (WORK POSITION)	3700 mm	3700 mm	3700 mm
LENGTH (WORK POSITION)	2400 mm	2400 mm	2400 mm
WIDTH (ROAD POSITION)	2540 mm	2840 mm	3140 mm
HEIGHT (ROAD POSITION)	2355 mm	2355 mm	2355 mm
LENGTH (ROAD POSITION)	3170 mm	3170 mm	3170 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

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



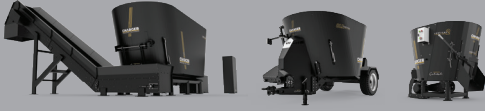
Silage Machines



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!



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the choice of
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