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ENG

excellent **yield**

high **speed**

clean **harvest**

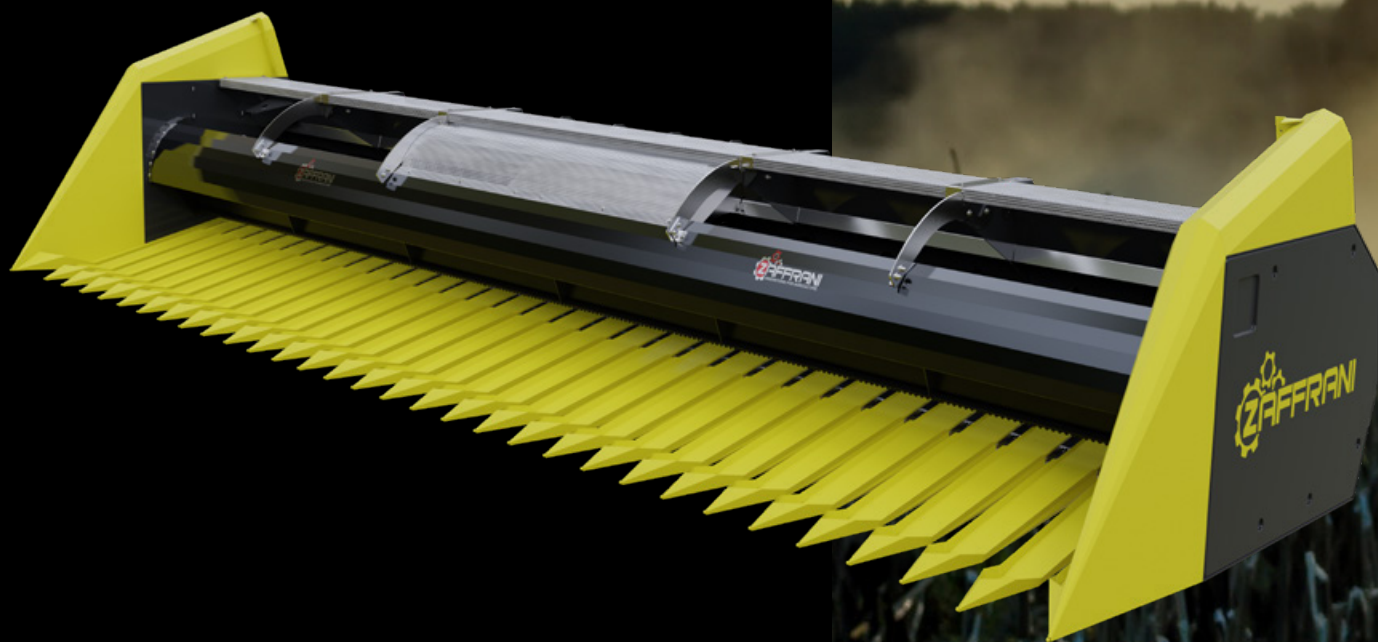


header

SUNFLOWER

innovations for agriculture

The Sunflow sunflower header is undoubtedly at the leading edge of Zaffrani products. It's the best choice for those looking for a cutting-edge technology in terms of reliability, safety and respect for the environment. The product is manufactured with refined high-quality materials regularly tested by the company.

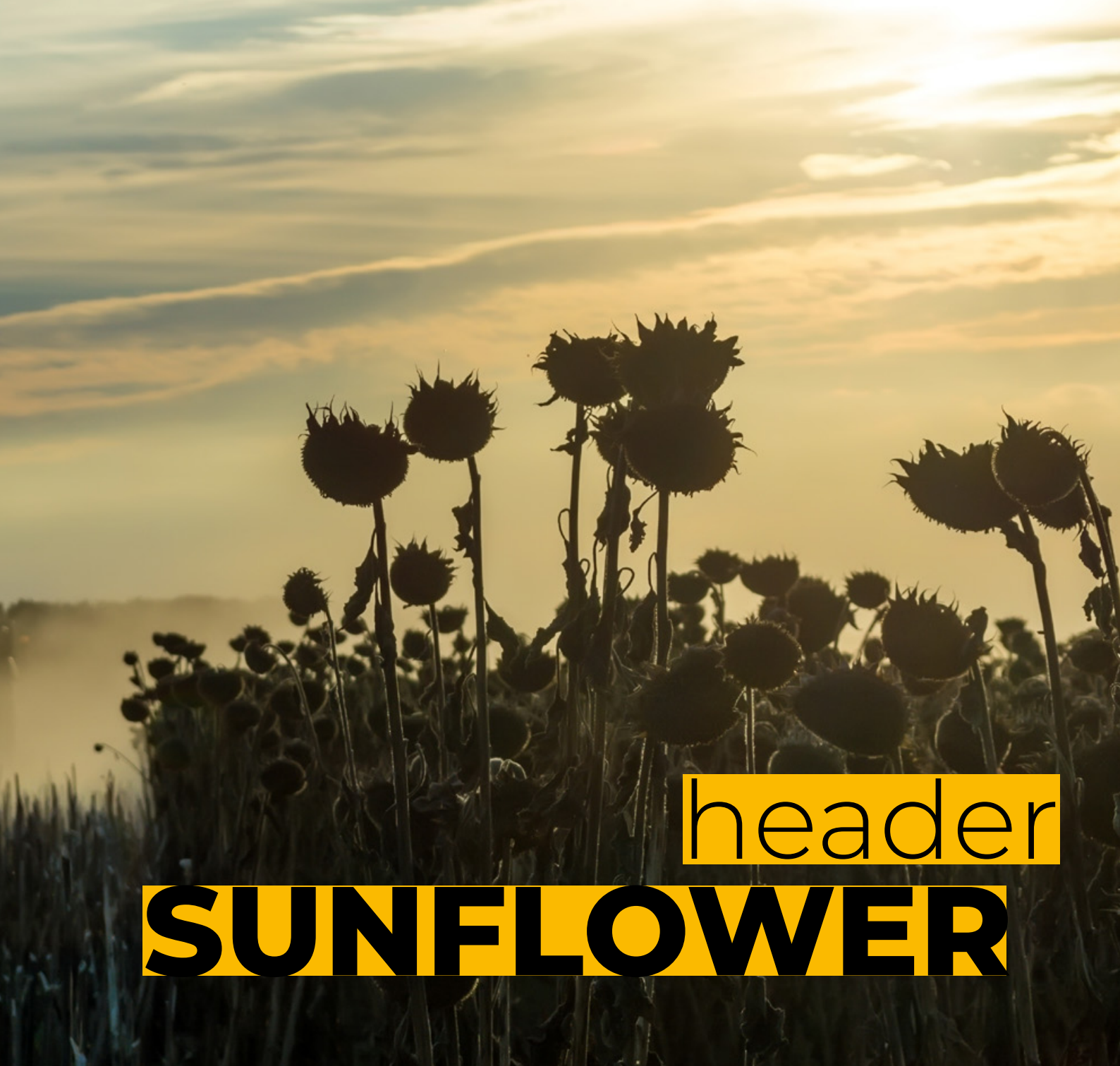
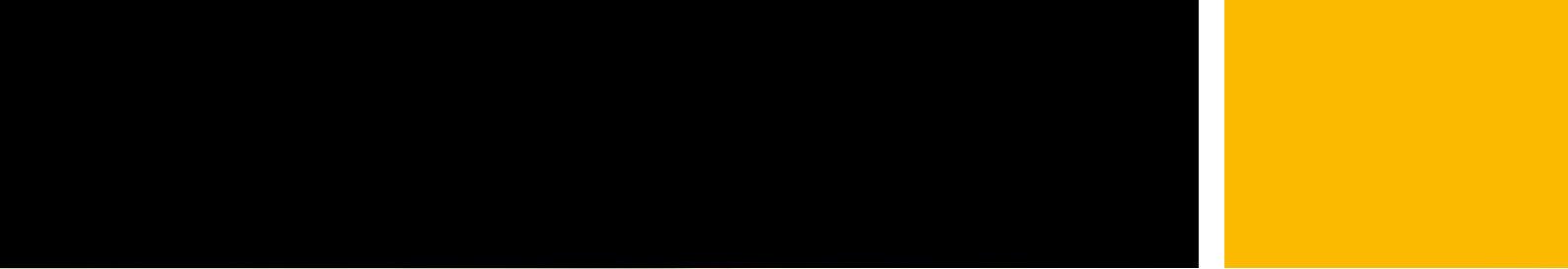


12 km/h

high speed
increased productivity

15 years

long life



header

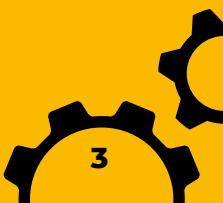
SUNFLOWER

-25°

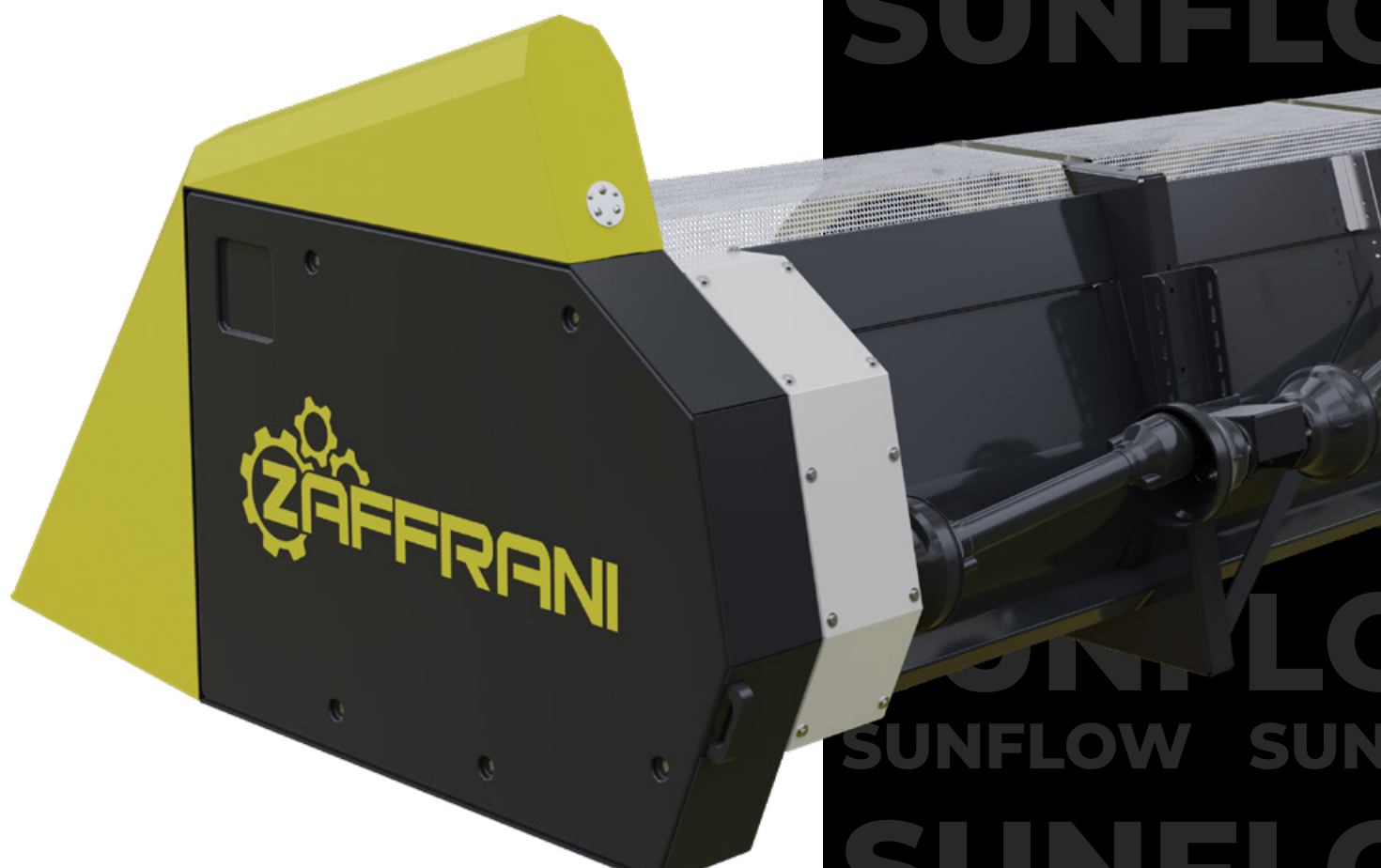
extreme
temperature

3% lost

minimal loss
of product



header **SUNFLOWER**



maximum adaptability

Zaffrani sunflower headers are universal and adaptable to any type of combine

Connection and **inclination** regulation operations of the header can be carried out **autonomously** and are **extremely simple**.

simple connection

The **flange** allows the connection to the combine's elevator channel with a **single move**; the **locking system** with levers assures the **correct** position during processing. The **counter-flange** allows the **adjustment** of the tips with respect to the ground.

Sunflower header has been designed adaptable for any type of combine even after a first configuration. The adaptation kit, according to the conversion type, can include: a coupling flange, a transmission box, a cardan shaft.

flangekit

DW
FLOW
DW

DW
FLOW
DW

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FLOW

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FLOW

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FLOW



accessories **included**

- replacement blade
- coupling kit
- bolts kit

possibility to customize tips and nets



continuous and constant **feeding** of the combine's **conveyor** channel

adjustable height of chopping stalks

easy **maintenance**

workforce **24-hour**

manufactured with **high-quality material**

A photograph showing a close-up of a sunflower header in a field. The header is a mechanical part of a combine harvester, designed to cut and gather sunflower heads. It is shown in a field of mature sunflowers, with the header positioned above the crop. The sunflower heads are large and round, with a dense, textured surface. The header is made of metal and has a complex, curved design. The background shows a vast field of sunflowers under a clear sky.

header **SUNFLOWER**

clean harvest

The technical characteristics of the Zaffrani sunflower header guarantee the collection of absolutely **all sunflower heads**, maximising the product selection and minimising the presence of the waste (stalks and leaves) that is left almost entirely on the field.

A photograph showing a close-up of a sunflower header in a field. The header is a mechanical part of a combine harvester, designed to cut and gather sunflower heads. It is shown in a field of mature sunflowers, with the header positioned above the crop. The sunflower heads are large and round, with a dense, textured surface. The header is made of metal and has a complex, curved design. The background shows a vast field of sunflowers under a clear sky.

high **speed**

Combines with Zaffrani sunflower headers can operate at a speed that ranges between **8 and 12 km/h**, thus optimising to the maximum the quantity of the harvested product and resulting in only 3 % of seed loss. Moreover, the **innovative materials**, more resistant and **lightweight**, used for the header, not only **reduce** the **fuel consumption**, but also, combined with ordinary **maintenance**, guarantee the longevity of the machine up to **15 years**, thus increasing the profitability of the harvest.



watch the **videos**



-25°

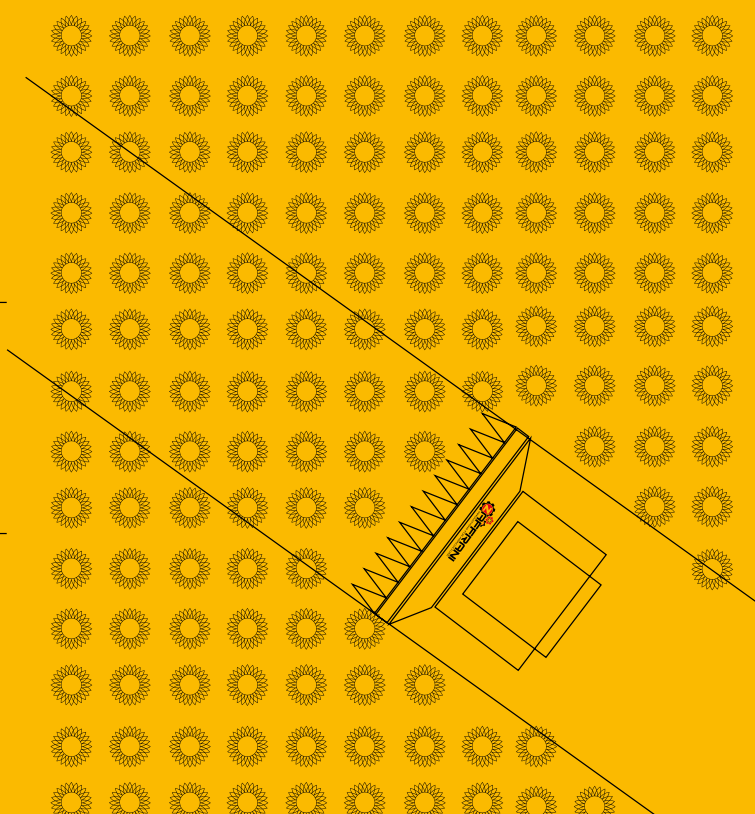
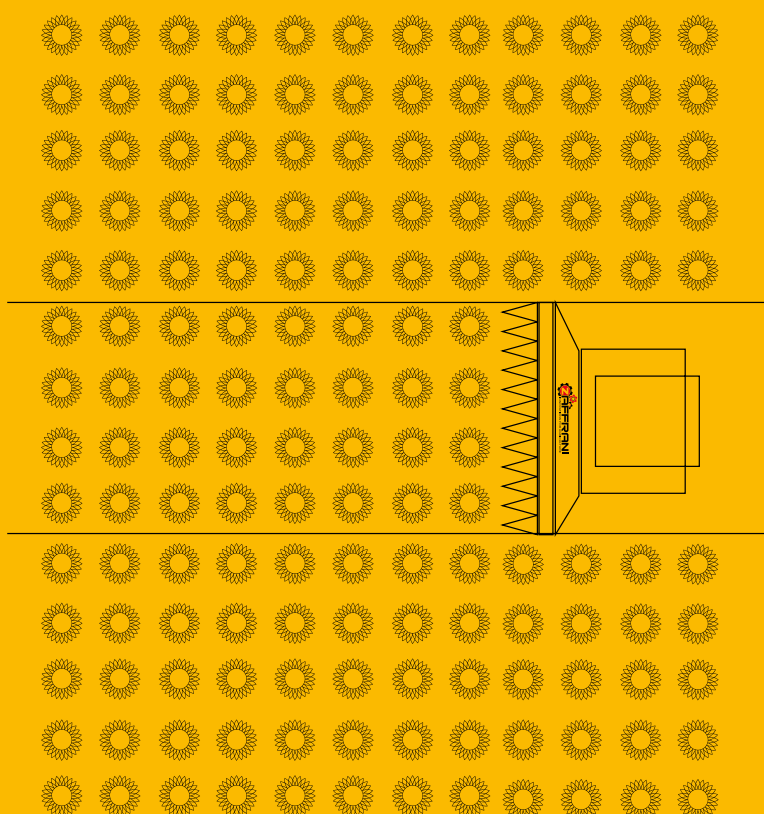
Zaffrani sunflower headers, thanks to the accuracy at the design stage, as well as the exclusive and innovative lubrication and greasing system, can operate even under extreme conditions, with temperature reaching -25°.

For northern countries, where the winter season is very long and rigid, this means that the harvesting period can be significantly prolonged, thus increasing the quantity and revenue of the harvested product.

Harvesting regardless of the sowing direction

The special constructive shape, the number and the layout of the tips allow to harvest the product regardless of the distance between the rows (row free system), and of the sowing direction.

The sunflower row-free header is Zaffrani's innovation that is being constantly updated and improved.



everywhere

Functioning principle

stage 1

The sunflower head comes into contact with the protective cover of the feeder reel, which thanks to its position relative to the blade, tilts the sunflower and prepares it for the entry into the working area of the reel, whose position can be adjusted manually, facilitating the sliding of the cut product towards the auger, preventing its dispersion.

stage 2

The stalk comes to the blade and is cut neatly, which is assured by the efficient alternative box. The exclusive cutting system allows the combine equipped with Zaffrani headers to advance at the speed of 12 km/h with maximum yield. At the same time, the blades of the feed reel push the sunflower head towards the auger.

stage 3

The cut sunflower heads are conveyed towards the centre of the header and with the help of two toothed blades are introduced into the elevator channel of the combine.



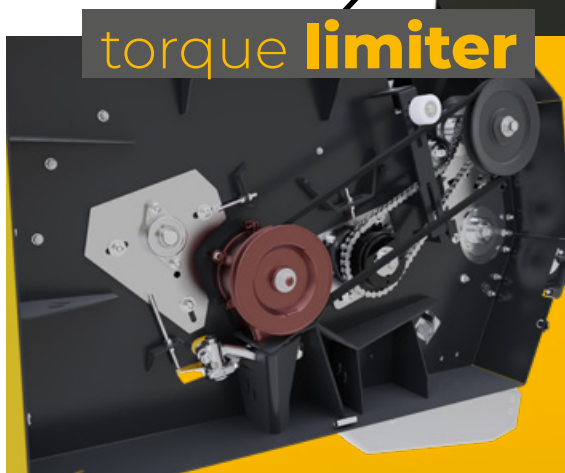
CHARACTERISTICS

Technical



dividers

The rounded side and the shaped side covers allow to easily penetrate the product even in the direction opposite to sowing, allowing the combine to advance at a speed up to 12 km/h.



torque limiter

The torque limiter intervenes in cases of clogging by being set in motion and thus protecting the mechanical parts.



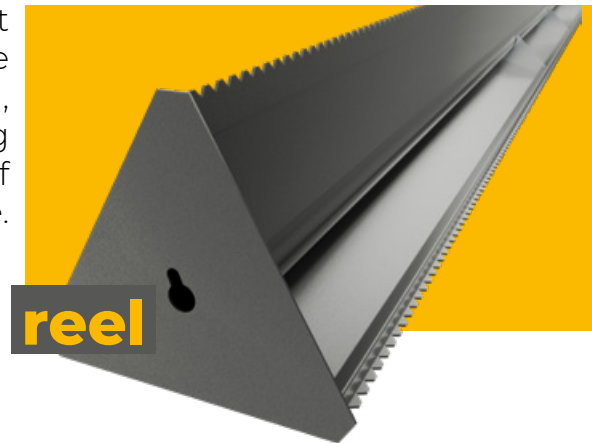
blade



The blade with wide cutting front, also suitable for thicker stalks, is controlled by an alternative box of 700 strokes/minute: this results in a minimum wear of the transmission parts, reduced frame vibrations, the optimisation of cutting and harvesting as a whole.

The Zaffrani sunflower headers are supplied with a replacement blade that is conveniently inserted into the header body.

The 3 toothed blades with thrust plates at the right distance from the cutting blade are the advantage of the Zaffrani reel, more efficient and capable of directing the product towards the entry channel of the combine.



The conveyor roller runs at 170 rpm without generating vibrations harmful to the machine and thanks to the minimum distance from the reel, it prevents the product from getting caught up allowing a faster advance, with fewer losses.

The specially designed tips allow the sunflowers to slide towards the machine without tossing and seed loss.

The balls welded at the tip soften the contact with the plant so that it is not damaged or shaken but is channeled into the header. The Zaffrani tips are additionally reinforced in the lower part and in the fold point.

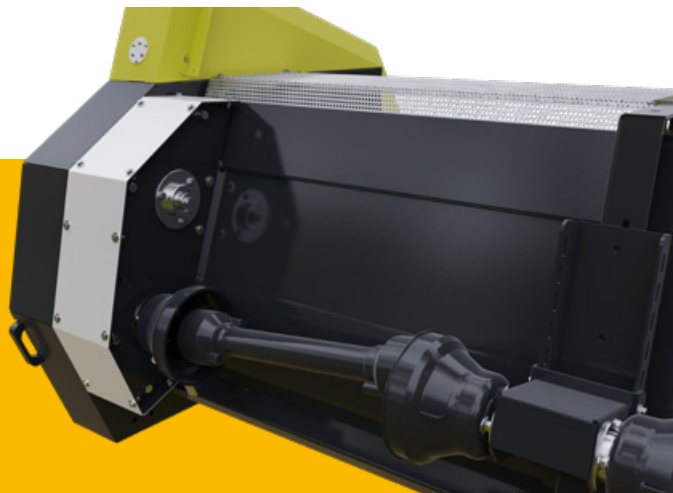
For some markets characterised by especially tall sunflower varieties we can provide allongated tips (25 cm longer than the standard ones), necessary for a better harvest when the sunflower reaches a height of over two meters.

CHARACTERISTICS

Technical

transmission **box**

The transmission box is a mechanism that allows to link the movement between the combine's elevator channel and the sunflower header. Depending on the combine type, the transmission box can be high or low and is customizable so that the header parts always perform the optimum number of revolutions for harvesting, regardless of the PTO revolutions of the combine.



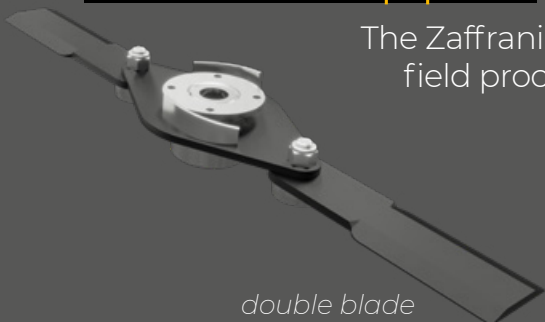
raised and fixed **nets**



The Zaffrani sunflower header is equipped with a central fixed net and two lateral nets positioned to protect the mechanical parts. The lateral nets are adjustable in height and have an important function of protecting the operator and to contain the product within the conveyor zone, from the conveyor roller to the combine's channel.

ACCESSORIES

stalk chopper

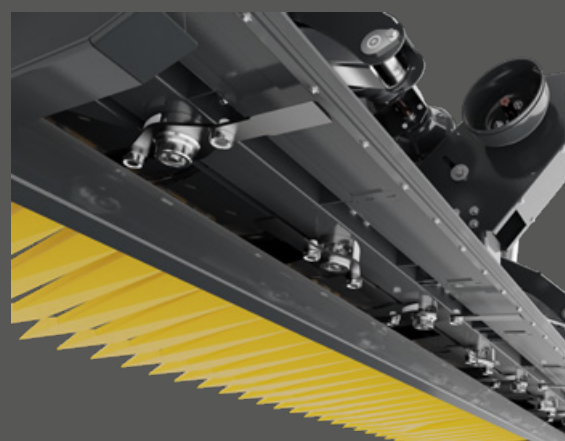


double blade

The Zaffrani stalk chopper for sunflower headers is designed to maximise field processing. It chops the stalk to completely destroy it and to leave the field absolutely clean.

It is composed of rotating reversible blades reinforced with tungsten, to guarantee maximum and continuous cutting efficiency. It can be replaced in complete autonomy thanks to easy disassembly. It is installed on the combine together with an exclusive system of

hydraulic compensation, which allows to adjust the height of the chopper with respect to the position of the sunflower header.



STALK CHOPPER FOR UNIVERSAL SUNFLOWER HEADERS (FOR STANDARD COMBINES)

MODEL	500 N	600 N	670 N	740 N
Max. width, m	5,00	6,00	6,70	7,40
Cutting width, m	4,90	5,90	6,60	7,30
Weight, kg	400	500	550	600
Number of gearboxes	7	9	9	10
Number of blades (per box)	2	2	2	2
Min. speed of blades (m/s)	60	60	60	60
Max. harvesting speed (km/h)	7-8	7-8	7-8	7-8

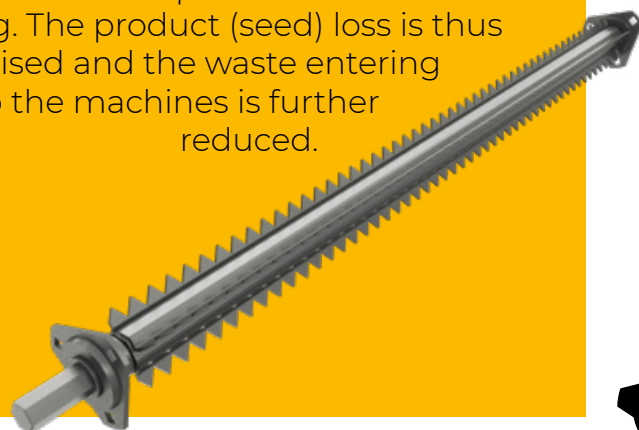
the data provided is to be considered indicative

Adaptation Kit for a second combine

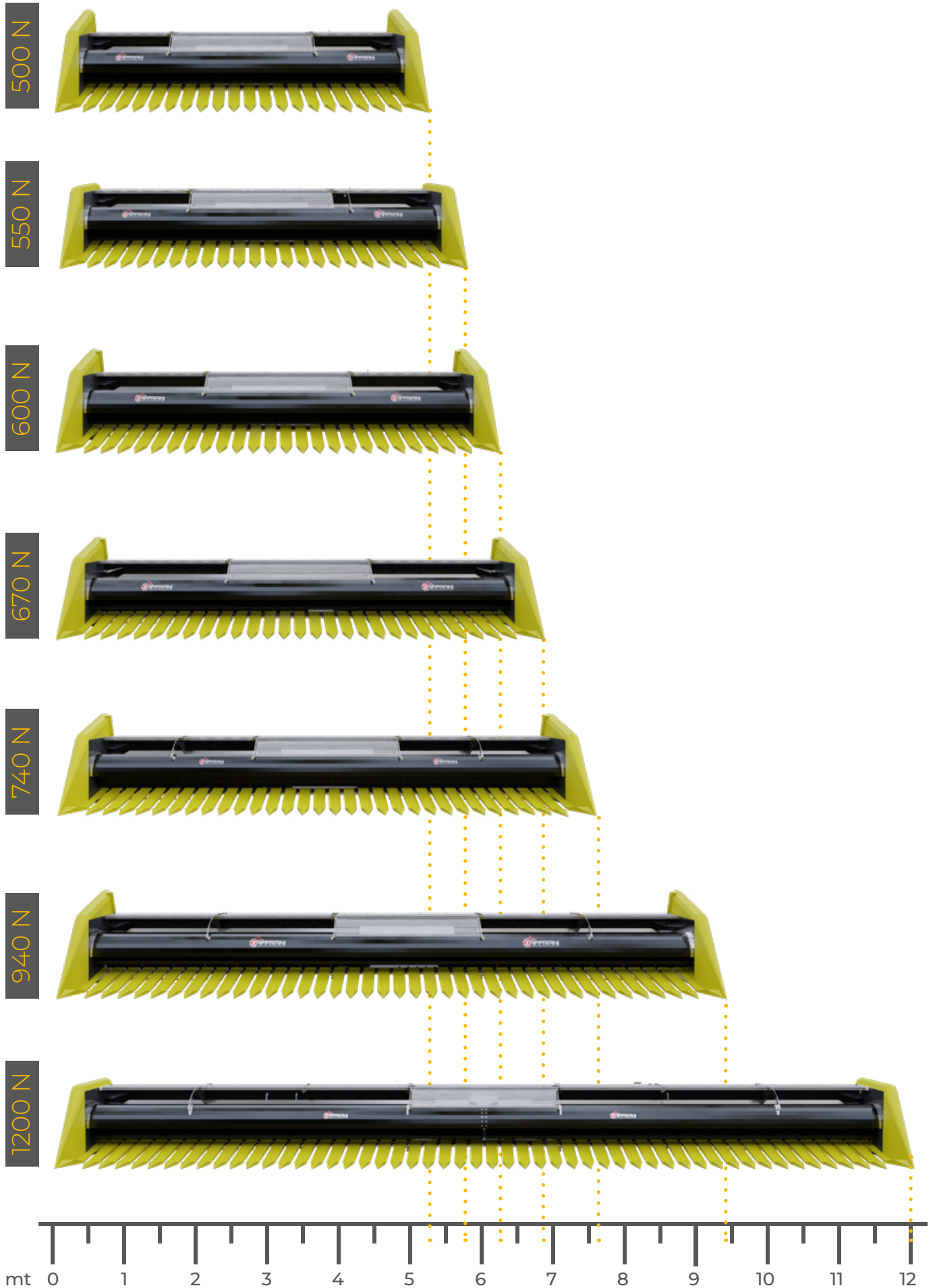
The aquired sunflower to be installed on a particular combine, can be eventually configured for another combine: with the help of special adaptation kits that we have designed the Zaffrani sunflower headers can be easily installed on other machines.

stalk roller

The stalk roller, positioned under the tips, pushes the sunflower in the direction of travel of the combine, bending it forwards, which guarantees the optimal position of the plant at the moment of cutting. The product (seed) loss is thus minimised and the waste entering into the machines is further reduced.



Integrative Technical Data Sheet for Sunflower Header								
Model		500 N	550 N	600 N	670 N	740 N	940 N	1200 N
dimensions	Height, m	1,1	1,1	1,1	1,1	1,1	1,1	1,1
	Max. width, m	5,2	5,7	6,2	6,9	7,6	9,4	12,10
	Cutting width, m	5	5,5	6	6,7	7,4	9,2	11,90
	Depth, m	2,35	2,35	2,35	2,35	2,35	2,35	2,35
	Weight, kg	1.650	1.800	1.900	2.000	2.200	2.700	3.200
PTO absorbed power		35/40 Hp	35/40 Hp	35/40 Hp	35/40 Hp	35/40 Hp	35/40 Hp	35/40 Hp (sx + dx)
PTO revolutions (approx.)		570	570	570	570	570	570	570
Conveyor roller (diameter, mm)		240	240	240	240	240	300	300
Spiral Conveyor roller (diameter, mm)		540x500x240	540x500x240	540x500x240	540x500x240	540x500x240	540x500x300	540x500x300
Conveyor roller drive		mechanical	mechanical	mechanical	mechanical	mechanical	mechanical	mechanical
Conveyor roller revolutions (approx.), rpm.		170	170	170	170	170	170	170
Oscillating transmission box revolutions, rpm		346	346	346	346	346	346	346
Transmission box oil (type)		85W140	85W140	85W140	85W140	85W140	85W140	85W140
Cutting blade strokes (strokes/min)		692	692	692	692	692	692	692
Compactor reel		1	1	1	1	1	1	1
Compactor reel revolutions (approx.)		45	45	45	45	45	45	45
Mounting (type)		central	central	central	central	central	off-center to the left	central
Numero di punte		20	22	24	27	30	38	50



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corn header

sunflower headers