

HAYMAKING

REAR-MOUNTED RANGE



language



SINCE 1943, THE YEAR IT WAS FOUNDED, BCS HAS BEEN DESIGNING AND BUILDING GRASS MOWING MACHINES IN ITALY.

THE SUCCESS OF THESE MACHINES AND THE EXPERIENCE GAINED OVER THE YEARS, THANKS ALSO TO THE CONTINUOUS AND CONSTANT DIALOGUE WITH ITS CUSTOMERS, HAVE ENABLED BCS TO PRODUCE A COMPLETE RANGE OF CUTTER BARS, DISC MOWERS AND MOWER CONDITIONERS WITH THE AIM OF OBTAINING HIGH QUALITY FODDER WITH A HIGH NUTRITIONAL VALUE.

- ▣ **DUPLEX CUTTER BARS**
- ▣ **ROTEX XT SIDE SUSPENSION DISC MOWERS**
- ▣ **ROTEX XR SIDE SUSPENSION MOWER-CONDITIONERS**
- ▣ **DYNAMIX R CENTRAL SUSPENSION SUPER-PROFESSIONAL MOWER-CONDITIONERS**

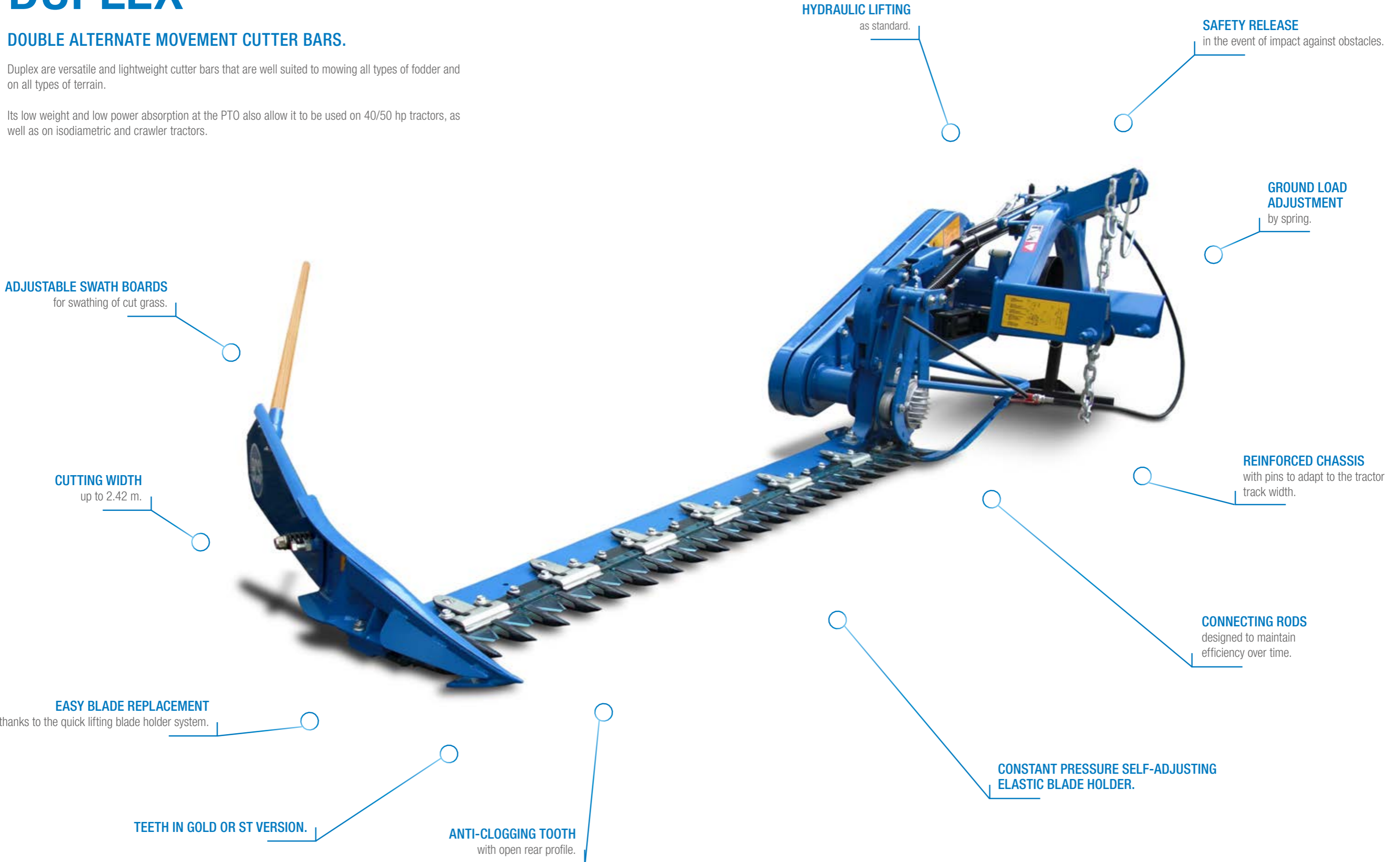
FOR THE SMALL, MEDIUM AND LARGE AREA MARKET, THEIR STRENGTHS ARE RELIABILITY, HIGH PERFORMANCE AND STATE-OF-THE-ART TECHNICAL SOLUTIONS.

DUPLEX

DOUBLE ALTERNATE MOVEMENT CUTTER BARS.

Duplex are versatile and lightweight cutter bars that are well suited to mowing all types of fodder and on all types of terrain.

Its low weight and low power absorption at the PTO also allow it to be used on 40/50 hp tractors, as well as on isodiametric and crawler tractors.



ADJUSTABLE SWATH BOARDS
for swathing of cut grass.

CUTTING WIDTH
up to 2.42 m.

EASY BLADE REPLACEMENT
thanks to the quick lifting blade holder system.

TEETH IN GOLD OR ST VERSION.

ANTI-CLOGGING TOOTH
with open rear profile.

HYDRAULIC LIFTING
as standard.

SAFETY RELEASE
in the event of impact against obstacles.

GROUND LOAD ADJUSTMENT
by spring.

REINFORCED CHASSIS
with pins to adapt to the tractor track width.

CONNECTING RODS
designed to maintain efficiency over time.

CONSTANT PRESSURE SELF-ADJUSTING ELASTIC BLADE HOLDER.

CHASSIS

The **compact and robust load-bearing chassis** is designed to minimise the overhang of the cutter bar in relation to the tractor thus optimising weight distribution.

On hills or mountain areas or in the presence of steep terrains and hollows, the Duplex cutter bars are preferred to disc or drum mowers.



HYDRAULIC LIFTING

The **standard hydraulic lift** allows the bar to be positioned vertically for headland manoeuvres and for transfer on the road.

Thanks to the possibility of tilting the bar up to -55° from the horizontal plane, Duplex machines are also versatile in mowing embankments and ditches.



CUTTING UNIT

Thanks to the **double reciprocating movement of the blade and teeth**, which move in opposite directions at the same time, the perfect 'scissor' cut of the Duplex cuts the grass stem cleanly without fraying it and maintaining its nutritional value. This type of cut also ensures a rapid and blooming regrowth of the lawn.

The **elastic, self-adjusting blade holders** keep the best 'scissor' cutting condition constant over time, avoiding bothersome manual adjustments, giving a perfect, burr-free cut every time.



The ground load adjustment of the cutting unit is spring-loaded, allowing the cutter bar to perfectly follow the contour of the ground for a clean cut and fodder that is not contaminated by soil or stones.

The cutting height is adjusted, in tune with the skids on the cutter bar, quickly and easily by acting on the tractor's 3-point linkage.



VERSIONS

Duplex cutter bars are available with a cutting width of up to 2.42 m and in two different versions: Gold or ST.

- **Gold Version:** characterised by double-section teeth (distance between the tips 76 mm)
- **ST version:** characterised by triple-section teeth (distance between tips 50 mm) recommended for use on stony lawns.



TECHNICAL FEATURES	DUPLEX 1,68	DUPLEX 1,82	DUPLEX 2,12	DUPLEX 2,42
Cutting width (mm)	1680	1820	2120	2420
Number of blade sections	22	24	28	32
Weight (kg)	245	260	275	287
Power required at PTO (kW/hp)	15 / 20	15 / 20	15 / 20	15 / 20
Self-adjusting elastic blade holders	standard			
Wear-resistant steel skids	standard			
Lifting the cutter bar	hydraulic via single-acting distributor on the tractor			
Bar inclination	from + 90° to - 55° with respect to the horizontal plane			
Ground load adjustment	standard			
Spare blade	standard			
Cardan shaft	standard			
Safety release	standard			
Swath board	standard			



ROTEX ROTEX DISC MOWERS

Refurbished in appearance and reinforced in structure, the **Rotex XT disc mowers** and **Rotex XR mower conditioners** have been developed to cope with the increasingly heavy-duty working conditions dictated by today's demanding farms: ever higher working speeds, ever larger areas to be mowed and ever longer travel distances, even at 40 km/h.

Thanks to the robust cutter bar and technical solutions that reduce the machine's ground pressure at work, Rotex machines guarantee:

- ▣ always clean and non-contaminated cut
- ▣ maintaining the optimum nutritional value of the cut grass
- ▣ plant cover preserved to the benefit of higher quality fodder.

The minimal power absorption at the PTO makes Rotex XT and XR also applicable to low-power tractors as well as in combination with front mowers to achieve even greater working widths and increase mowing productivity.

THE ROTEX RANGE

MOWERS

	Cutting width (m)	Weight (kg)	Power required at PTO (kW/hp)
ROTEX XT 4	1,65	520	20 / 27
ROTEX XT 5	2,05	560	25 / 34
ROTEX XT 6	2,45	600	30 / 41
ROTEX XT 7	2,85	645	35 / 48

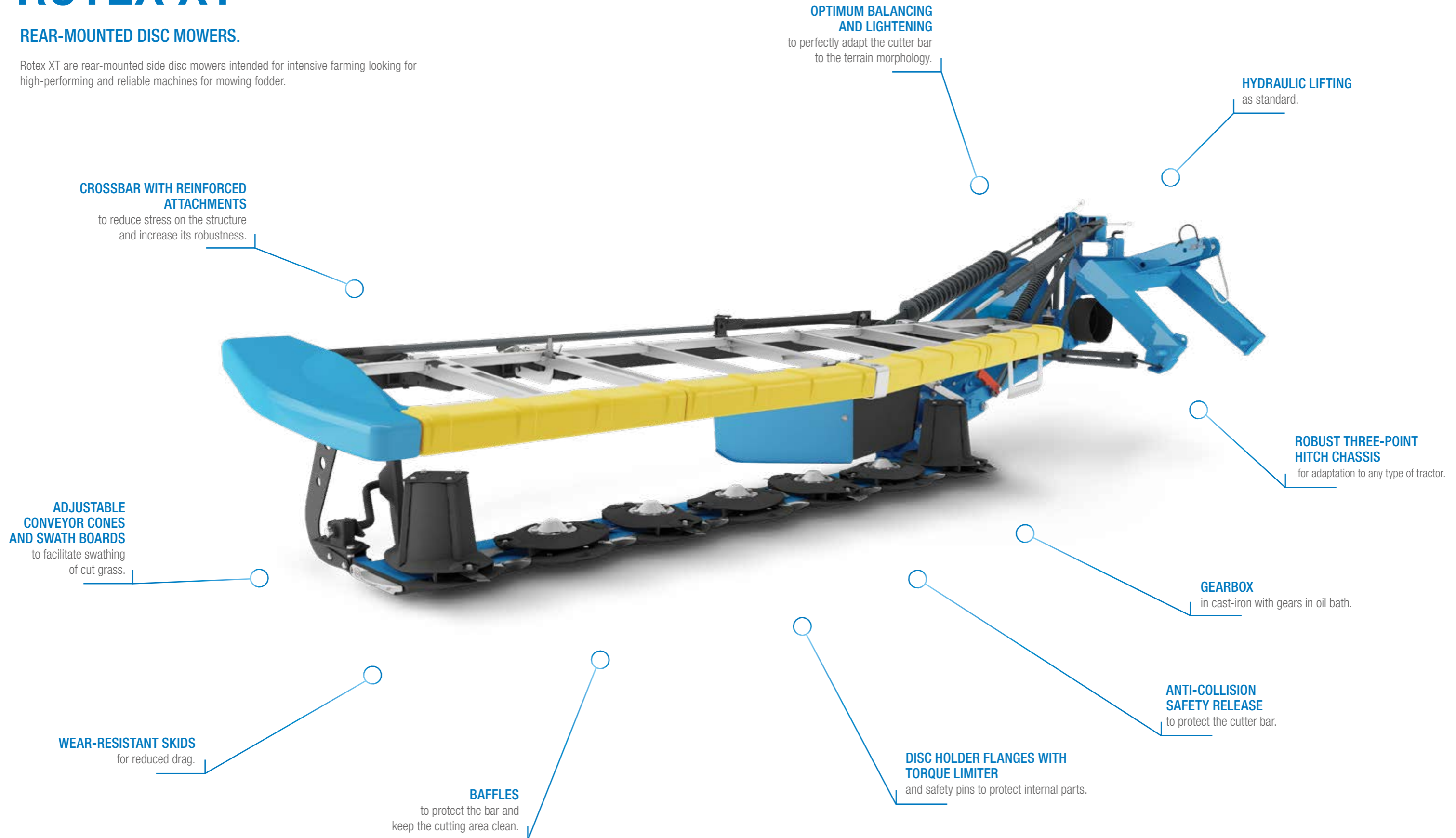
MOWER-CONDITIONERS

	Cutting width (m)	Weight (kg)	Power required at PTO (kW/hp)
ROTEX XR 5	2,05	720	40 / 54
ROTEX XR 6	2,45	780	50 / 68
ROTEX XR 7	2,85	900	55 / 75

ROTEX XT

REAR-MOUNTED DISC MOWERS.

Rotex XT are rear-mounted side disc mowers intended for intensive farming looking for high-performing and reliable machines for mowing fodder.



CROSSBAR WITH REINFORCED ATTACHMENTS

to reduce stress on the structure and increase its robustness.

OPTIMUM BALANCING AND LIGHTENING

to perfectly adapt the cutter bar to the terrain morphology.

HYDRAULIC LIFTING

as standard.

ROBUST THREE-POINT HITCH CHASSIS

for adaptation to any type of tractor.

ADJUSTABLE CONVEYOR CONES AND SWATH BOARDS

to facilitate swathing of cut grass.

GEARBOX

in cast-iron with gears in oil bath.

ANTI-COLLISION SAFETY RELEASE

to protect the cutter bar.

DISC HOLDER FLANGES WITH TORQUE LIMITER

and safety pins to protect internal parts.

WEAR-RESISTANT SKIDS

for reduced drag.

BAFFLES

to protect the bar and keep the cutting area clean.

STRUCTURE

The new **three-point hitch chassis** provides greater stability and robustness. The fixed chassis is adjusted by means of lower cat. 2 and 3 pins used to adjust the cutter bar with respect to the tractor wheel or the overlap when working in combination with a front-mounted mower.

Rotex machines are equipped as standard with an **anti-collision safety release**: in the event of a violent collision against an obstacle, the device causes the cutter bar to partially retract and lift, preventing possible damage.

Balancing and **lightening of the cutter bar** occur through a system of strong helical springs and tie-rods.

In this way, the weight of the mower is distributed evenly, allowing the cutting unit to adapt perfectly to the morphology of the terrain.

ADVANTAGES

- ▣ Less friction resulting in fuel saving
- ▣ Regular cutting height
- ▣ Always clean and non-contaminated fodder
- ▣ Protection of the turf

HYDRAULIC LIFTING

The standard supplied hydraulic lifting allows lifting the bar up to $+90^\circ$ (i.e. vertically) during end-of-field manoeuvres and during road transfer, and it operates trouble-free on embankments and escarpments up to -35° with respect to the horizontal plane.

In transport position, the cutter bar is securely held by a mechanical device, leaving a good view for the operator at the back.



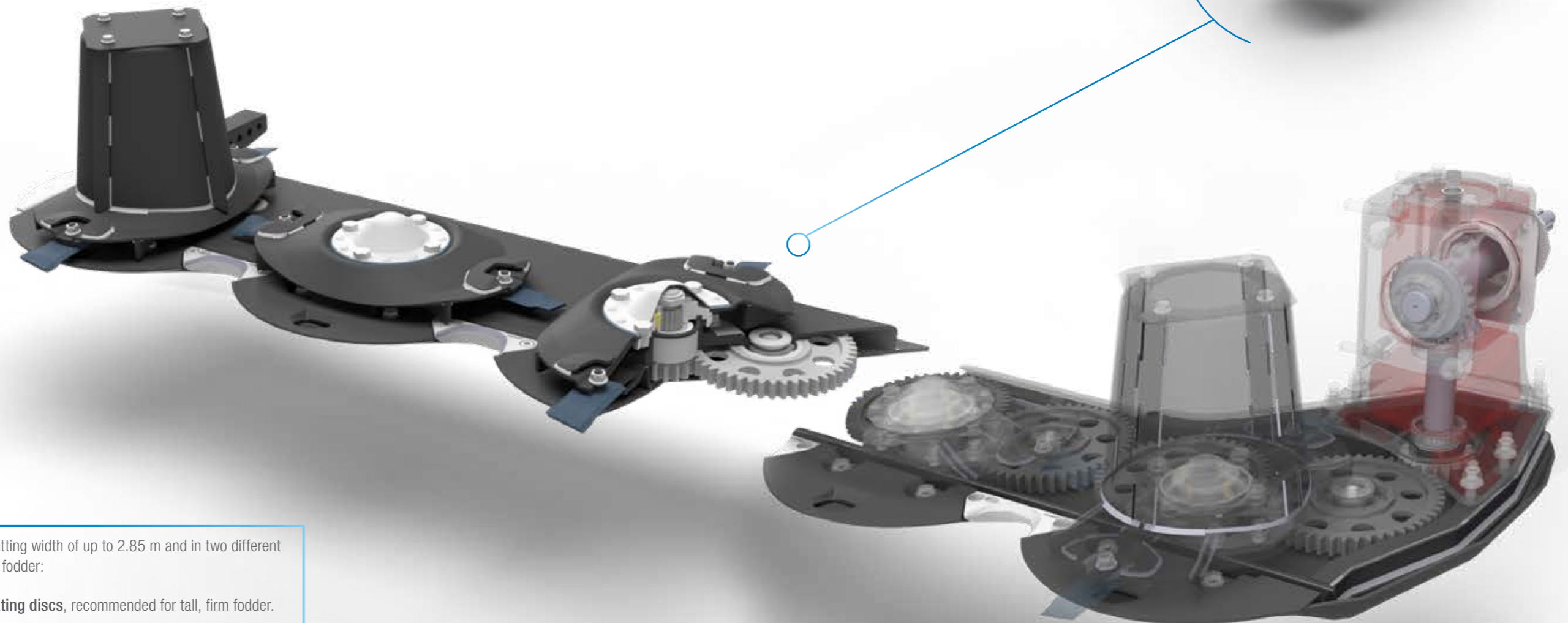
CUTTING UNIT

The **Rotex gearbox**, with oil-bath gears, is made of spheroidal cast iron to ensure maximum resistance to stress during both work and transfer.

Oil bath gear **transmission**: the sealed ball bearings and the large gears achieve an efficient motive force transmission to cutting discs.

The **sleek oval discs** are equipped with knives for a clean, quality cut, and mud-scraper fins to ensure a clean cutter bar at all times.

The **conveyor cones** mounted on the first and last discs, in tune with the swath boards, facilitate the swathing of the cut grass.



VERSIONS

Rotex XT are available with a cutting width of up to 2.85 m and in two different versions, for cutting all types of fodder:

- **Version with normal rotating discs**, recommended for tall, firm fodder.
- **Version with counter-rotating discs**, recommended for low and dense fodder typical of mountain areas.

TOTAL SAFETY

The internal transmission parts are protected by a safety system supported by **disc holder flanges with controlled-breakage safety pins**: in the event of accidental impact of the discs against stones or obstacles, the device allows the four pins to break, which can be replaced in a few minutes, safeguarding the rest of the transmission.

The **baffles in the knife crossing areas** also protect the bar in the event of a blade bending as a result of an impact.

The **wear-resistant skids** ensure a long service life for the cutter bar, as well as promoting less drag.



ROTEX XR

REAR-MOUNTED MOWER CONDITIONERS.

Rotex XR are side disc mowers, with chevron roller conditioner, designed for professional farmers looking for high-performance machines for mowing and conditioning fodder.

Thanks to the roller conditioner, the grass is crushed, without however losing the nutrient-rich leaves, and deposited on the ground forming a large and well-ventilated heap. This process reduces drying time by up to 50% to the advantage of the quality of the fodder and the lower risk of exposure to bad weather.

PROTECTIVE COVER

surrounded by plastic impact protectors.

ADJUSTING

the conditioning pressure.

UPPER SWING ROLLER

for the expulsion of any foreign bodies.

CONDITIONER OPERATING ACROSS THE ENTIRE WORKING WIDTH

to treat the fodder evenly.

BAR BALANCING

by means of adjustable springs at both ends.

HYDRAULIC LIFT

for adjusting the bar directly from the driver's seat.

ROBUST THREE-POINT HITCH CHASSIS

of cat. 2 and 3 to adapt to any type of tractor.

MINIMUM POWER CONSUMPTION AT THE PTO

for combined use.

DISCS WITH CLEANING FLAPS

and flanges with torque limiter.

CUTTER BAR

equipped with transmission with gears in oil bath.



CONDITIONER

Rotex XR machines are equipped with a **roller conditioner made of special polyurethane resin**, which is lightweight and has high abrasion resistance compared to classic rubber rollers.

The characteristic helix-shaped chevron ribbing allows the two rollers to work interlocked, crushing the tree stem and allowing it to dry quickly, preserving its integrity in both quality and nutritional terms.



The **conditioning pressure is adjustable** by means of a lever control connected to torsion bars that adjust the roller spacing from 0 to 40 mm. In the latter position, the mown fodder passes between the rollers without being conditioned.

The special geometry of the conditioner with the upper and lower rollers 'offset' allows for a **better flow of fodder both in and out** to optimise its effectiveness even with particularly dense harvests.

The upper roller is oscillating, to eject any foreign bodies, while a special guard attached to the rear of the cutter bar, available as an option, protects the lower roller in the event of violent impacts with stones when working in undeveloped soil.

The **conditioner operates across the entire working width**, so the cut crop is treated homogeneously and deposited on the ground, in tune with the swath boards, forming a copious and well-aerated mound.



ROTEX XT

REAR-MOUNTED DISC MOWERS

TECHNICAL FEATURES	ROTEX XT 4	ROTEX XT 5	ROTEX XT 6	ROTEX XT 7
Number of discs	4	5	6	7
Cutting width (mm)	1650	2050	2450	2850
Min/max swath width (mm)	250 / 650	650 / 1050	1050 / 1450	1450 / 1850
Weight (kg)	520	560	600	645
Power required at PTO (kW/hp)	20 / 27	25 / 34	30 / 41	35 / 48
Chassis with cat. 2 and 3 hitches	standard			
Tractor PTO rotation speed	540 rpm			
Spheroidal cast iron gearbox	standard			
Transmission	with gears in oil bath			
Disc rotation	counter-rotating	normal or counter-rotating		
Disc flanges with torque limiter	standard			
Conveyor cones	positioned on the first and last discs as standard			
Adjustable swath boards	standard, of which external swath wheel			
Wear-resistant special boron/manganese steel skids	standard			
Baffles situated in the blade overlap zones	standard			
Safety release with retraction of the bar in the event of impact against obstacles	standard			
Bar balancing by means of lightening springs and tie rods	standard			
Bar protection	in synthetic fabric	made of synthetic fabric with protective plastic impact shields		
Hydraulic cutter bar lift	standard			
Hydraulic distributors required on the tractor	1 single acting			
Bar inclination	from +90° (transport position) to -35° in relation to the horizontal plane			
Cardan shaft with free release	standard			

ROTEX XR

REAR-MOUNTED MOWER CONDITIONERS

TECHNICAL FEATURES	ROTEX XR 5	ROTEX XR 6	ROTEX XR 7
Number of discs	5	6	7
Cutting width (mm)	2050	2450	2850
Min/max swath width (mm)	760 / 1180	1160 / 1580	1070 / 1630
Weight (kg)	720	780	900
Power required at PTO (kW/hp)	40 / 54	50 / 68	55 / 75
Chassis with cat. 2 and 3 hitches	standard		
Tractor PTO rotation speed	540 rpm		
Spheroidal cast iron gearbox	standard		
Transmission	with gears in oil bath		
Disc rotation	normal		
Disc flanges with torque limiter	standard		
Conveyor cones	positioned on the first and last discs as standard		
Adjustable swath boards	standard		
Wear-resistant special boron/manganese steel skids	standard		
Baffles situated in the blade overlap zones	standard		
Safety release with retraction of the bar in the event of impact against obstacles	standard		
Bar balancing by means of lightening springs and tie rods	standard		
Bar protection	front made of synthetic fabric with plastic impact shields, rear made of steel with upper baffle for fodder flow regulation		
Hydraulic cutter bar lift	standard		
Hydraulic distributors required on the tractor	1 single acting		
Bar inclination	from +90° (transport position) to -35° in relation to the horizontal plane		
Cardan shaft with free release	standard		
Conditioner	with rollers made of special polyurethane resin and chevrons. Upper swing roller for the expulsion of any foreign bodies		
Lower roller protection	optional		
Lever-operated conditioning pressure control	standard		
Roller spacing adjustment	0 to 40 mm		
Roller rotation speed (with PTO at 540 rpm)	1300 rpm		
Conditioning width (mm)	1400	1800	2200

DYNAMIX SUPER-PROFESSIONAL MOWER CONDITIONERS

BCS extends its range of rear-mounted mower conditioners with the brand new Dynamix with eight discs and a cutting width of more than 3 metres, which is the ideal solution for those mowing large areas, whether on plain or gently sloping ground.

Featuring a sturdy central suspension chassis and exclusive technical features that allow it to self-lighten as it travels over the ground, Dynamix R8 is designed for perfect use in combination with the Neva Avant front-mounted mower-conditioner, for a work site over 6 metres wide:

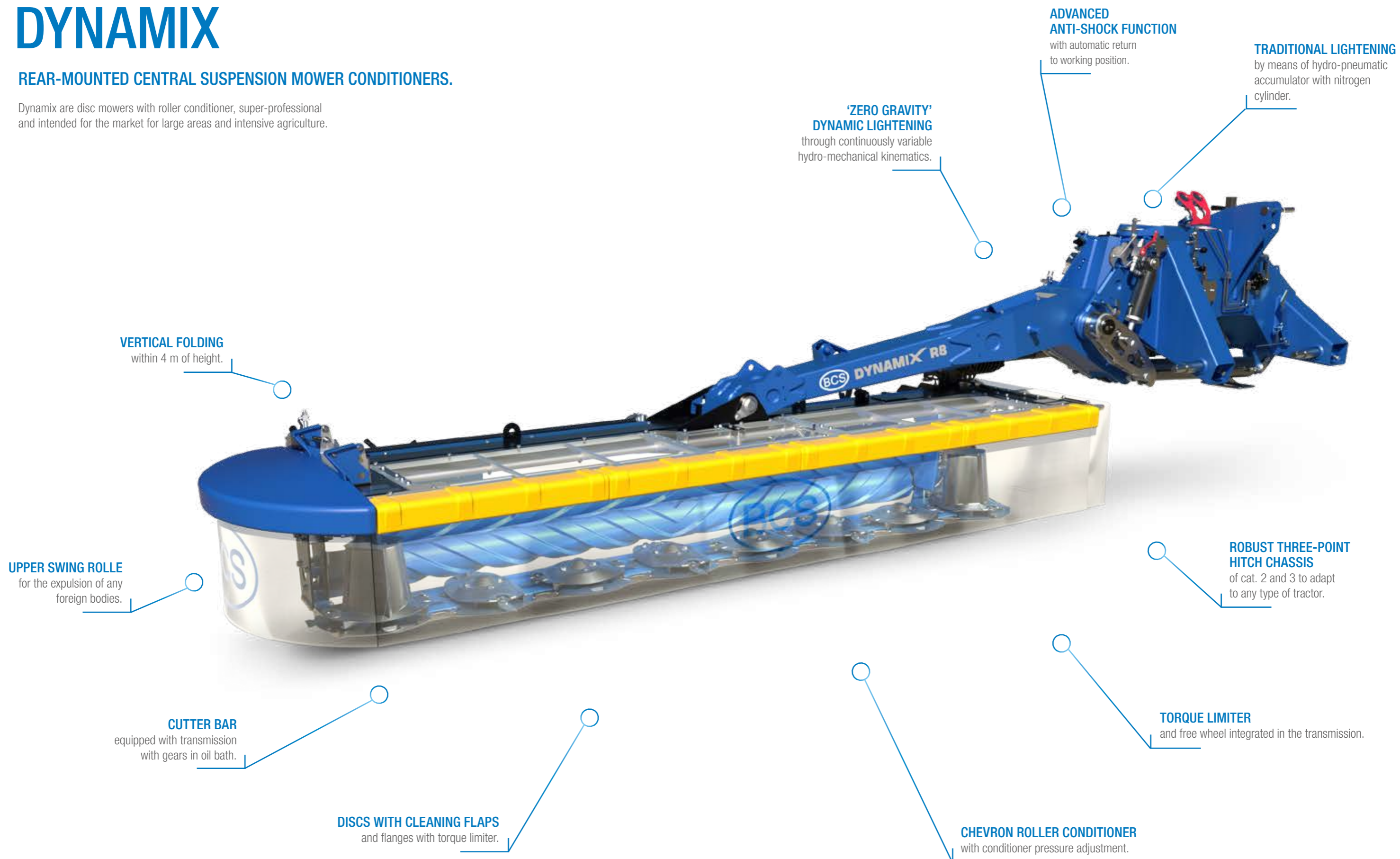
- ▣ More efficient mowing
- ▣ Optimisation of working time
- ▣ Reduced fuel consumption



DYNAMIX

REAR-MOUNTED CENTRAL SUSPENSION MOWER CONDITIONERS.

Dynamix are disc mowers with roller conditioner, super-professional and intended for the market for large areas and intensive agriculture.



VERTICAL FOLDING
within 4 m of height.

UPPER SWING ROLLE
for the expulsion of any
foreign bodies.

CUTTER BAR
equipped with transmission
with gears in oil bath.

DISCS WITH CLEANING FLAPS
and flanges with torque limiter.

**'ZERO GRAVITY'
DYNAMIC LIGHTENING**
through continuously variable
hydro-mechanical kinematics.

**ADVANCED
ANTI-SHOCK FUNCTION**
with automatic return
to working position.

TRADITIONAL LIGHTENING
by means of hydro-pneumatic
accumulator with nitrogen
cylinder.

**ROBUST THREE-POINT
HITCH CHASSIS**
of cat. 2 and 3 to adapt
to any type of tractor.

TORQUE LIMITER
and free wheel integrated in the transmission.

CHEVRON ROLLER CONDITIONER
with conditioner pressure adjustment.

PATENTED DYNAMIC LIGHTENING

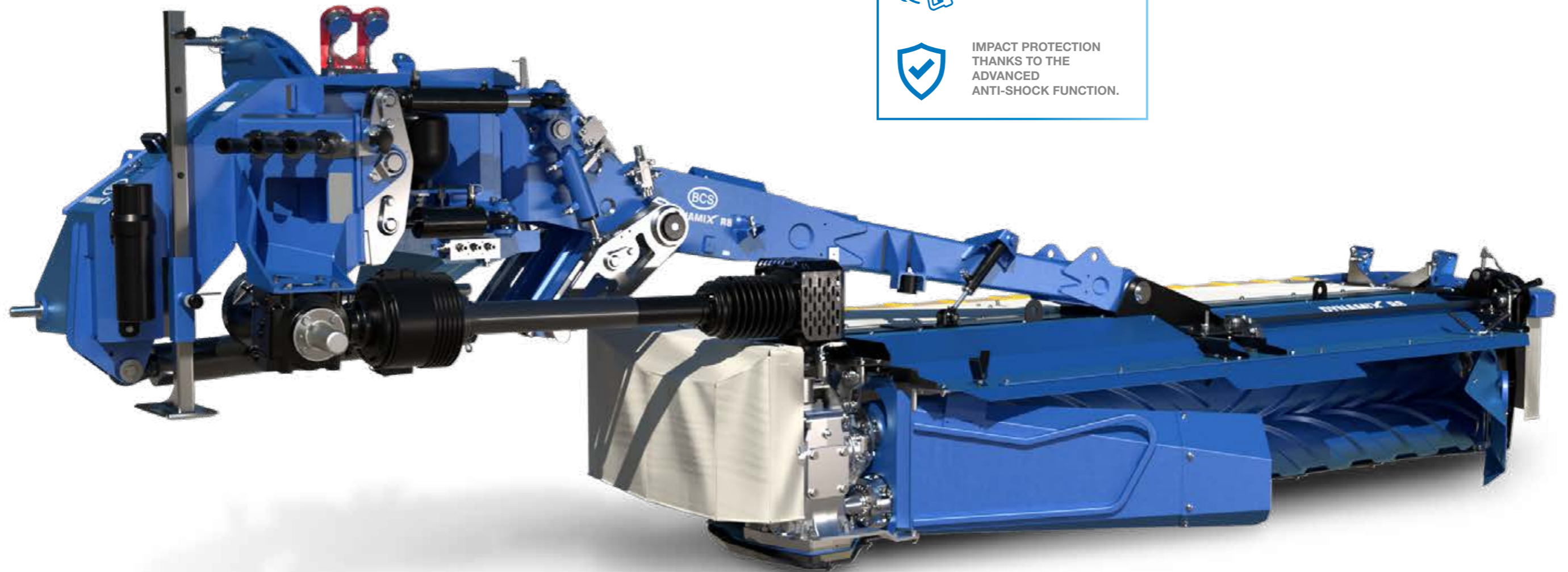
ZEROGRAVITY

Dynamix R8 is equipped with a new **double lightening system** that allows the cutting unit to adapt perfectly to the morphology of the soil.

In addition to the traditional lightening, which is carried out by means of a hydro-pneumatic accumulator with nitrogen cylinder, there is the **patented 'Zero Gravity' dynamic lightening** which, by varying continuously depending on the conditions of use, has the task of limiting the ground pressure of the cutter bar and reducing the tractor's forward effort.

In addition, when the cutter bar encounters an obstacle during cutting, such as a large stone or the protruding part of a cut tree, the **dynamic 'Zero Gravity' lightening** causes the cutter bar to retract and lift off the ground at the same time, helping it to overcome the obstacle and protecting it from possible damage to internal parts.

Thanks to this hydro-mechanical kinematics and the anti-shock function with automatic return of the bar to working position, Dynamix R8 proves to be a light mower-conditioner on the ground guaranteeing a clean and uncontaminated fodder cut.



'ZERO GRAVITY' ADVANTAGES



SELF-LIGHTENING
DURING ADVANCE.



ADAPTATION TO
TERRAIN MORPHOLOGY.



IMPROVED FODDER
QUALITY.



HIGHER WORKING
SPEED.



LOWER FUEL
CONSUMPTION.



IMPACT PROTECTION
THANKS TO THE
ADVANCED
ANTI-SHOCK FUNCTION.

PROTECTIVE DEVICES

In addition to the advanced anti-shock function of the dynamic 'Zero Gravity' lightening, safety and reliability are ensured by numerous protective devices on the cutting unit:

- Cardan shaft with torque limiter, installed between the bevel gearbox and the speed increaser, to protect the transmission in the event that disc or roller rotation is slowed or blocked.
- A freewheeling device installed between the speed increaser and the cutter bar, which allows a gradual stop of the rotation of the rotating blades when the PTO is switched off.
- Disc-holding flanges with safety pins to protect internal parts in case of impact of the discs against stones or obstacles.
- Baffles in the knife overlap zones to protect the bar should a blade bend upon contact with an obstacle.

UTMOST ATTENTION TO ALL DETAILS

Strengths of BCS haymaking machines, the cutting unit and roller conditioner are common to the mower-conditioner range.

CUTTING UNIT

- **Gearbox, with gears in an oil bath:** made from spheroidal graphite cast iron to ensure maximum resistance to stress both during work and transfer.
- **Oil bath gear transmission:** the sealed ball bearings and the large gears achieve an efficient power transmission to cutting discs.
- **Discs:** with cleaning flaps ensure a constantly clean cutter bar.
- **Conveyor cones:** mounted on the first and last disc provide a better flow of the cut fodder towards the conditioner.

CONDIZIONATORE

- **Roller conditioner:** made of polyurethane, lightweight with high abrasion resistance.
- **Chevron ribbing:** allows the two rollers to work in an interlocking fashion, flattening the plant's stalk to allow rapid drying.
- **Conditioning pressure:** adjustable via lever control with inhibition option.
- **Upper swing roller:** to protect the conditioner and keep it intact in the presence of foreign bodies.
- **Lower roller protection for stony ground:** available as an option.



DYNAMIX

CENTRAL SUSPENSION MOWER CONDITIONERS

TECHNICAL FEATURES	DYNAMIX R8
Number of discs	8
Cutting width (mm)	3250
Min/max swath width (mm)	1350 / 1700
Weight (kg)	1380
Power required at PTO (kW/hp)	60 / 82
Chassis	with category 2 and 3 hitches
Tractor PTO rotation speed	540 rpm
Spheroidal cast iron gearbox	standard
Transmission	with gears in oil bath
Disc rotation	normal
Disc flanges with torque limiter	standard
Conveyor cones	positioned on the first and last discs as standard
Adjustable swath boards	standard
Wear-resistant special boron/manganese steel skids	standard
Baffles situated in the blade overlap zones	standard
Static lightening	via hydro-pneumatic accumulator with nitrogen cylinder
"Zero Gravity" dynamic lightening	via continuously variable hydro-mechanical kinematics
Advanced anti-shock function	with automatic return to working position
Bar protection	front made of synthetic fabric with plastic impact shields, rear made of steel with upper baffle for fodder flow regulation
Hydraulic cutter bar lift	standard
Hydraulic distributors required on the tractor	2 double-acting directional control valves
Bar inclination	17° downwards and 17° upwards from the horizontal plane
Cardan shaft	available as an option
Minimum supply pressure	18 MPa (180 bar)
Minimum supply capacity	50 l/min
Conditioner	with rollers made of special polyurethane resin and chevron ribbing. Upper swing roller for the expulsion of any foreign bodies
Lower roller protection	optional
Adjusting the conditioning pressure	by lever control
Roller spacing adjustment	0 to 70 mm



M A D E I N I T A L Y

The information in this leaflet is not binding: the models described may be modified, without notice, by the Manufacturer.
MZ 11/23 90100174GB