



HAYMAKING



ROTEX XT | XR

NEW ROTEX MACHINES FOR MODERN COMPANIES



BCS has been designing and manufacturing lawn mowers and garden machinery since 1943, the year of its establishment.

The success of these machines and the experience gained over years, also due to the continuous and constant contact with the customers allowed BCS to produce the **new range of mowers and rear mounted mower-conditioners type Rotex XT and Rotex XR**, to get a top quality forage, with high nutritional value.

Destined to the market of average/large surfaces and therefore to an intensive agriculture steadily engaged in the search for performing machines, BCS haymaking machines strength lays in **reliability and performance**.



With a new aspect and a reinforced structure, the **new Rotex XT disk mowers** and the **Rotex XR mower-conditioners** were designed to cope with more and more demanding work conditions, that the demanding and dynamic modern agricultural companies are posing:

- top working speeds
- wider mowing surfaces
- longer paths, even at 40 km/h

Thanks to the efficient and strong shearbar, with working width from 2.05 to 2.85 m, and to technological solutions optimising the machine ground clearance, the new Rotex machines guarantee a **clean and regular cut, an optimum nutritional value and the preservation of the vegetation cover**, to the advantage of a top quality forage.

Saving time working in full safety

The minimum power absorption of the PTO makes Rotex XT and XR **suitable for low power tractors as well as for use on slopes, and combined with front mowers** to get wider working width and increase cutting.

High design and manufacturing standards guarantee resistance to wear, long life and a matchless reliability for a steady and intensive use.

Overview of Rotex range

MOWERS			
	Cutting width (m)	Weight (kg)	PTO power (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)	PTO power (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



10 REASONS TO CHOOSE ROTEX XT



DISK MOWERS

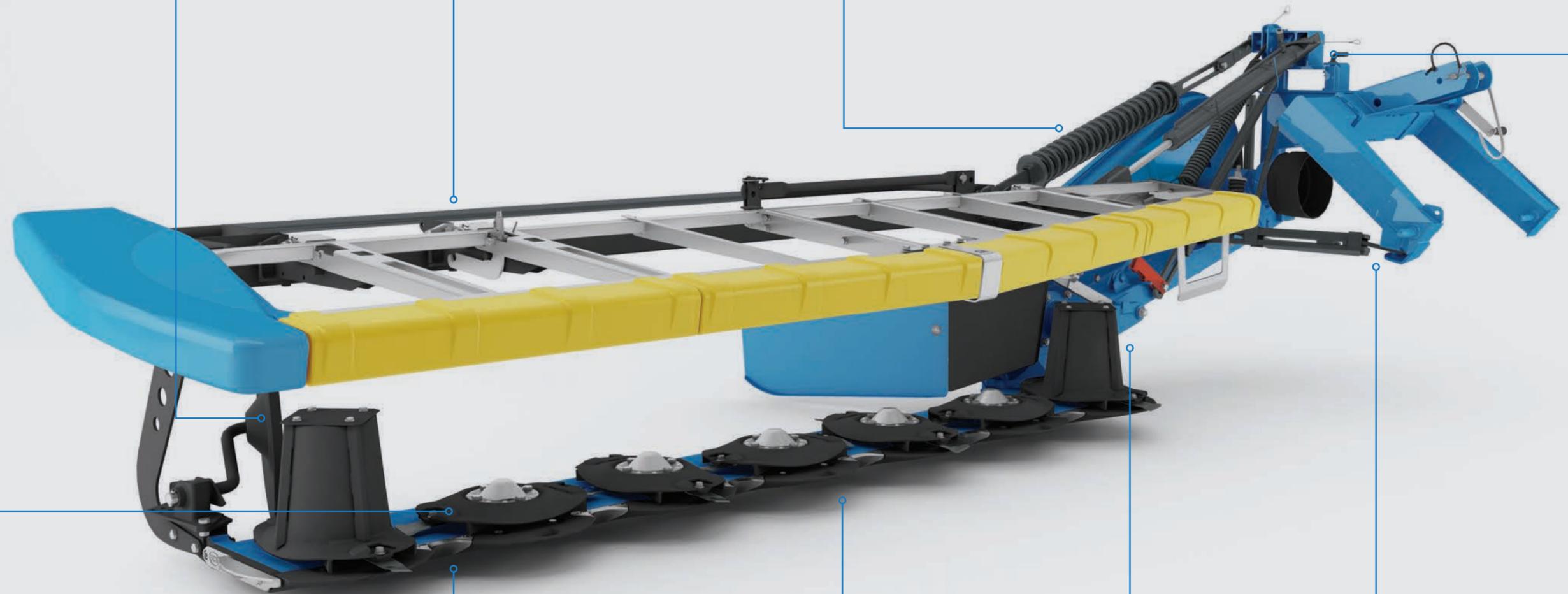
Disc-holding flanges with torque limiter and shearpins to protect internal components.

Conveyor cones and adjustable tier boards for an easier swathing of cut grass.

Crossbar with reinforced couplings to reduce stresses on the structure and increase resistance.

Very good balancing and lightening so that the cutter bar can follow the ground contour in the best way.

Hydraulic lifting to adjust the cutter bar sloping.



Wear-resistant skids for a lower resistance to inching.

Baffles to protect the cutter bar and keep the cutting area clean.

Impact preventing safety unlock device to avoid any damage to the cutter bar.

Gearbox made from nodular cast iron with oil bath gears.

The three-point linkage frame can be adjusted on the side to suit any kind of tractor.

FRAME AND STRUCTURE



Impact preventing safety unlock device

Rotex XT and XR are equipped with an **impact-preventing safety unlock device**, to avoid any damage to the cutter bar: in case of strong bumps against an obstacle, the device partially retracts and lifts the cutter bar. To continue working, just move a bit in reverse.

Simple and precise kinematic movements

The standard **hydraulic lifting** is used to ease cutter bar during end of field manoeuvres, lifting it to +90° (in vertical direction) during road transfers or facilitating work on steep banks and ditches until -35° versus the horizontal direction. All this can be done from the tractor operator's seat, by simply moving the control valve lever. In this way, no adjustment is required on the tractor's third point because it is always at the preset height for an always sharp and clean cut.



Safe transfer

In **transport position**, the cutter bar is securely held by a mechanical device, leaving a good view for the operator at the back. The reduced offset vs. the tractor guarantees a high stability without any swinging movement during road transfers, also at high speed.

Driving in narrow spaces is guaranteed by the possibility of turning the machine by 90° so that it falls within the tractor overall dimensions.

Full compatibility

The **three-point linkage frame** can be adjusted on a side thanks to a handle, to suit it to any kind of tractor. The perfect correspondence with the tractor track allows the cutting width to be fully exploited, along with adjusting the best overlapping in case of combined work with a front mower.

Very good distribution of pressure on the ground

Balancing and lightening of the cutter bar occur through a system of strong helical springs and tie-rods, acting independently on both ends of the cutter bar: in this way, the weight of the mower is regularly distributed and the cutter bar can follow the ground contour in the best way.

ADVANTAGES:

- LESS FRICTION WITH RESULTING FUEL SAVING
- REGULAR CUTTING HEIGHT
- ALWAYS CLEAN AND NON CONTAMINATED FORAGE
- PROTECTION OF THE TURF



New design and even more comfortable maintenance

A complete new design was implemented for the **protection canvas**, which is now surrounded by plastic impact-preventing guards and for **crossbar, equipped with reinforced couplings**. The crossbar is secured to the end of the bar by a sickle-shaped cutting support, to relief all strains from the structure and increase its sturdiness.

The tilting of the guard gives easy and comfortable access to the cutter bar, for its cleaning and maintenance.

CUTTING UNIT

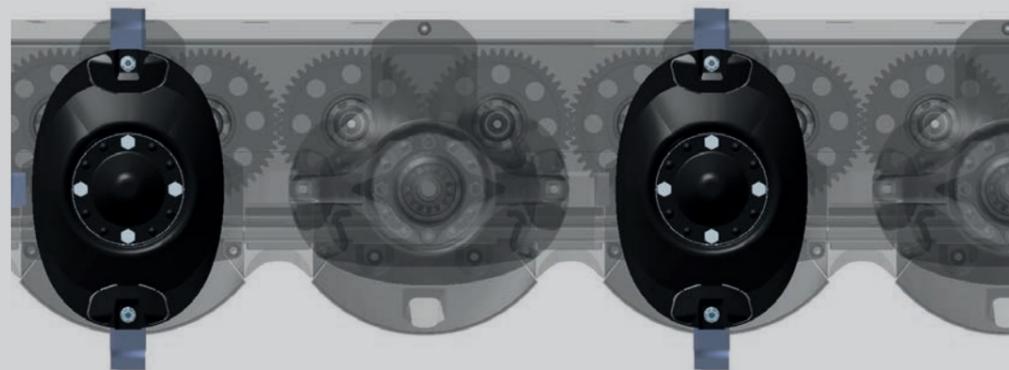


Strong and reliable transmission

Rotex XT and XR were designed to bear heavy duty conditions all the time; the cutter bar is formed by top quality and highly resistant components, but, at the same time its contour is limited: this optimises penetration in all types of forage, even if thick and laid-down, ensuring regular discharge of cut grass without any danger of clogging.

The **gearbox**, with gears in an oil bath, is made from spheroidal graphite cast iron to ensure maximum resistance to stress both during work and transfer.

The cutter bar has an **oil bath gear transmission**. The sealed ball bearings (automotive type) and the large gears with rounded profiled teeth achieve an efficient and reliable power transmission to cutting discs.



Discs and wear-resistant skids

The **oval discs**, in special steel and with cleaning flaps achieve an optimal flow of forage and high wear resistance.

The special **wear skids in special high-resistance boron/manganese steel** protect the cutter bar and guarantee a long life and a lower resistance to inching.

Perfectly shaped swaths

The conveyor cones, which are mounted on the first and last disc, make the swathing of the cut forage easier and allow the machine to gather it towards the centre of the bar, thus forming, in synch with the adjustable tier boards, a copious and well aired heap.

Total safety



Transmission is protected against accidental impacts by a **safety system supported by disc-holding flanges with a breakdown device**. This device prevents any damage to the cutter bar interior components in case of strong impact between discs and stones or obstacles. The 4 safety shearpins are cut and can be replaced within a few minutes with very short down times.

Baffles with reinforced connections are located in the knife overlap zones and protect the cutter bar should a blade bend upon contact with an obstacle. Their special shape prevents soil clogs and debris to be accumulated; the cutting area is always clean for optimal forage flow.



10 REASONS TO CHOOSE ROTEX XR



MOWER-CONDITIONERS

Protection canvas surrounded by plastic impact-preventing guards.

Mower-conditioner working on the whole working width to process forage homogeneously.

Upper swinging roller for foreign body ejection.

Balancing of the cutter bar through adjustable springs on both ends.

Hydraulic lifting to adjust the bar height directly from the driver's seat.



Adjustment of the conditioning pressure with possibility of preventing conditioning.

Discs with cleaning fins and disc-holding flanges with torque limiter.

Cutter bar with oil bath gear drive.

Minimum power absorption of the PTO for machine use on slopes and in combined mode.

CONDITIONING UNIT



Saving time while keeping the top nutritional value

Roller conditioning occurs through squeezing and crushing of tree stalks to cut the waxy film and release moisture, thus favouring the drying process and preserving the leaves rich in nutritional substances.

This roller conditioning system allows the operator to reduce the drying time of the forage by up to 50%. The appreciable saving on time and the lesser danger of exposing the processed product to bad weather work to the advantage of the quality of the forage, which preserves its nutritional characteristics.



Smooth conditioning

Rotex XR are equipped with roller conditioner, in a special polyurethane resin with high size stability and high abrasion resistance. The characteristic helical chevron ribbing allows the two rollers to work in an interlocking fashion, flattening the plant's stalk to allow rapid drying and keep it intact both in terms of quality and nutritional value.



The **conditioning pressure can be adjusted** using a lever control which is connected to torsion bars that adjust the distance between the rollers between 0 and 40 mm. In this last position, the mowed forage passes through the rollers without being conditioned.

The special structure of the conditioner with offset upper and lower rollers achieves **a better flow of forage both at the inlet and the outlet** to improve efficiency also in case of specially thick crops.

The upper roller is swinging type to eject foreign bodies, while a special protection secured at the back of the cutter bar protects the lower roller in case of strong impacts against stones, when the mower-conditioner is operated on stony grounds.

The **conditioner controls the whole working width**; in this way, the cut crop is handled in the same way and laid on the ground, creating an abundant and well-aired heap, thanks to the adjustable swath boards.

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
PTO power (kW/hp)	20 / 27	25 / 34	30 / 41	35 / 48
Adjustable frame with linkage categories 1 and 2	standard outfit			
Tractor PTO rotation speed	540 rpm			
Nodular cast iron control support	standard outfit			
Transmission	with gears in oil bath			
Disc rotation	counter-rotating	normal or counter-rotating		
Disc holding flanges with torque limiter	standard outfit			
Conveying cones	standard outfit, on the first and last disc			
Adjustable swath boards	standard outfit, with one external swathing wheel			
Wear slides in special boron/manganese steel	standard outfit			
Baffles in blade overlap zone	standard outfit			
Safety release with bar retraction in case of impacts against obstacles	standard outfit			
Bar balancing by lightening springs and tie-rods	standard outfit			
Bar protection	canvas type	canvas type, with impact-preventing plastic shields		
Hydraulic lifting of the shearbar	standard outfit			
Hydraulic remote control valves of the tractor	1 single-acting			
Bar sloping	from +90° (transport position) to -35° vs. the horizontal plane			
Cardan shaft with free release	standard outfit			

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
PTO power (kW/hp)	40 / 54	50 / 68	55 / 75
Adjustable frame with linkage categories 1 and 2	standard outfit		
Tractor PTO rotation speed	540 rpm		
Nodular cast iron control support	standard outfit		
Transmission	with gears in oil bath		
Disc rotation	standard		
Disc holding flanges with torque limiter	standard outfit		
Conveying cones	standard outfit, on the first and last disc		
Adjustable swath boards	standard outfit		
Wear slides in special boron/manganese steel	standard outfit		
Baffles in blade overlap zone	standard outfit		
Safety release with bar retraction in case of impacts against obstacles	standard outfit		
Bar balancing by lightening springs and tie-rods	standard outfit		
Bar protection	canvas-type with plastic shock-resistant plastic shield at the front and steel with upper baffle for forage flow control at the back		
Hydraulic lifting of the shearbar	standard outfit		
Hydraulic remote control valves of the tractor	1 single-acting		
Bar sloping	from +90° (transport position) to -35° vs. the horizontal plane		
Cardan shaft with free release	standard outfit		
Conditioner with upper swinging roller for foreign body ejection	special polyurethane resin roller type with chevron ribs		
Lower roller protection	standard outfit		
Adjustment of conditioning pressure by lever control	standard outfit		
Roller clearance adjustment	from 0 to 40 mm		
Roller rotation speed (with PTO at 540 rpm)	1300 rpm		
Conditioning width (mm)	1400	1800	2200

THE SERVICES



SPARE PARTS

A complete range of original spare parts, guaranteed directly by the manufacturer.



ASSISTANCE

A team of specialists, well prepared and available to assure an efficient and resolving service.



WARRANTY

A precise certainty for the customer's satisfaction:
2-year warranty included in the price.



LUBRICANTS

We recommend to use the original PowerLube lubricants.



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