

Offset arm verge shredders

TB 10 - TB 100 SELECT - TBE 10 - TBES 10 - TBE 102
TBES 102 - SPRING-LONGER - PRO



www.kuhn.com



be strong, be **KUHN**



TB

10

TB

100 SELECT

TBE

10

TBES

10

TBE

102

TBES

102

SPRING-LONGER

PRO

A COMPLETE RANGE FOR ROAD VERGES AND FIELD EDGES



For several years KUHN has been developing a complete range of landscape maintenance equipment (landscape and offset-arm verge shredders, roadside mowers, hedge cutters) because preserving your landscape is an everyday concern for us!

SEVERAL REASONS FOR CHOOSING A KUHN LANDSCAPE TOOL:

- Designs suited to all user profiles, from semi-professional to intensive use.
- A high-quality working result in most different conditions.
- Versatile machines thanks to their travel range (offset, front and rear-mounted versions, operating angles etc.).
- Models with working widths from 1.53 to 2.50m
 - there is bound to be a machine suited to your needs.
- Maximum output cutting tools.
- The people and service surrounding the 60,000+ machines manufactured at the KUHN Group's factories every year.

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WHY SHRED VERGES, DITCHES AND BANKS?

Flourishing strips next to roads, paths and fields not only provide a nice view, but also help to manage biodiversity by providing retreats for many plant and animal species... as long as they are well maintained.

The objective must be to find the best compromise between necessary crop protection, maintenance and safety measures by regular mowing as well as public expectations concerning an attractive landscape and conservation issues.



FROM THE FARMER'S AND MUNICIPALITY'S POINTS OF VIEW



DON'T LET WEEDS IN

Weeds migrate from the border into the field and spread over the whole plot. Mowing field edges prevents weeds from spreading to the harvested crop. It is an essential operation as weed seeds in the crop reduce seed trader payments to farmers. Weeds may also hold viruses and fungi which can contaminate the following winter crops via aphids. That's why it is so important to carry out a precautionary cut.



A SOLUTION TO THE BAN ON PLANT-PROTECTION PRODUCTS

Shredding is an excellent and environmentally-friendly alternative to weed management. It is necessary in areas where plant-protection products are forbidden: river banks and streams, ecological areas or with environmental contracts, residential areas...



ENSURE AN EASY FIELD ACCESS

Tall grasses and herbs on field edges impair its accessibility, meaning that a pass with the shredder may be an indispensable measure before entering the field. In this way, you can also be sure that the crop dividers and other sensitive combine parts are not damaged by a stone or branch during harvest, as they can be detected before.



PRUNING OF HEDGES

Cutting back hedges doesn't mean to destroy them, but to maintain and limit them to where they can fulfil their conservation functions. Hedges, which slowly grow into the field or too close to the road edge, serve nobody in a positive way.



ENSURE DRIVERS' VISIBILITY

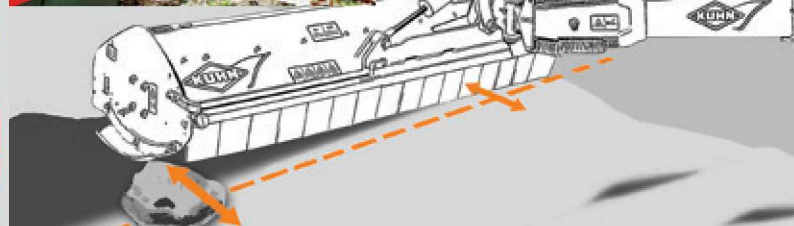
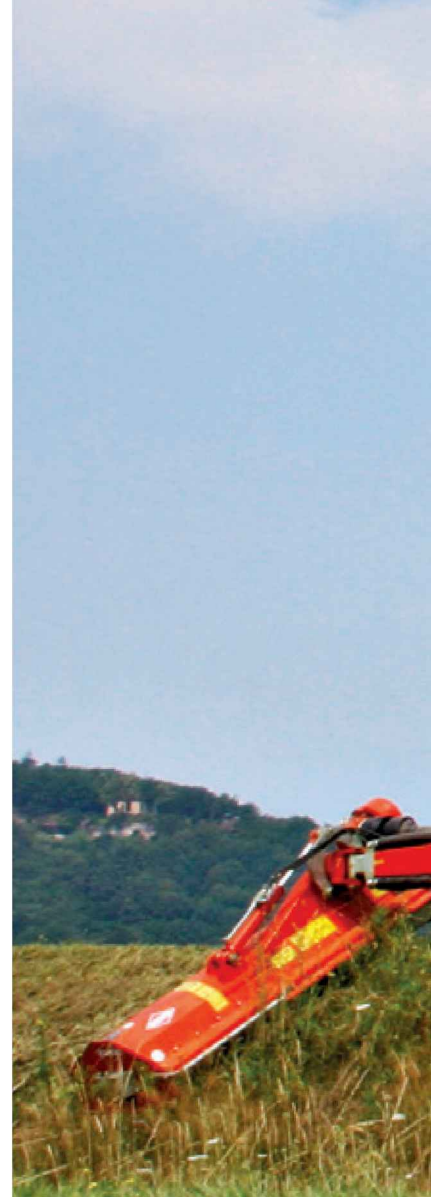
In spring and summer, each car driver can probably list one or the other turn or crossing, where he/she is not able to overlook the complete traffic situation well, because tall grasses and herbs block the view. But as soon as the visibility of road users is reduced, local authorities have to meet their obligations in terms of road safety and mow road verges.



FOCUS ON VERSATILITY

TB, TBE and TBES shredders are compelling in their versatility of use. Whether fighting weeds on field verges, maintaining grassy strips, ditches or banks or shredding the annual hedge growth – there is a solution for everyone.

In diverse situations they carry out a reliable job, supported by their sturdy design and safety features to avoid damage. Their work output will enable you to perform work in record time.



TRIED AND TESTED STRENGTH

KUHN verge shredders are designed for intensive use. The machine frame is unmatched in terms of reliability and longevity. Hitch frame, parallelogram arm, bushes on all pivot points... all of these features are made to provide the machine-strength required by users.

PROTECTED AGAINST IMPACT

The machine frame is protected by a non-stop spring-loaded safety system (TBE 10, TBES 10, TBE 102, TBES 102, TB 100 Select) should it hit an obstacle. After clearing the obstacle, the machine automatically returns to working position. TB 10 series models are equipped with a safety system on the linkage arms.

The mechanical parts which are exposed to impacts (casing, belt guard, bearings...) are all protected, and the casing features a bolted 4mm-thick sheet-metal lining for increased resistance to impacts and wear (not on TB 10).



WORK OUTPUT COMES FIRST

The special design of the shredder casing makes it possible to shred large quantities at high ground speeds. Its impressive performance is possible due to rotor size and the geometry of the casings which was made to improve residue flow. Different tools are available for different models: hammer knives, articulated hammer knives, Y knives and articulated scoop flails.

SUPERIOR STABILITY

Most of KUHN verge shredders are equipped with a tamping roller with removable end-pieces (except TB/TBE 10 series).

Result: reduced and facilitated maintenance and improved work quality. For work on irregular land, the body is protected by wide, height-adjustable skids (fixed on TB models).

LIGHT. ROBUST. VERSATILE.

The TB series 10 shredder range includes three models with working widths of 1.40, 1.60 and 1.80 m. These machines are designed for grassy areas, parks and gardens. TB series 10 tools are light enough to be coupled to low-powered tractors (only 40 hp) and versatile enough to take care of all types of landscape maintenance.



SHREDDERS THAT ADAPT TO ANY KIND OF JOB

TB series 10 machines can work:

- Behind the tractor.
- In offset position.
- At angles of -45° to $+90^\circ$ for ditches.

TB 10 models also have additional offset of 66 cm to ensure perfect results anywhere, including between obstacles such as trees and electric pylons.



PATENTED TOOLS FOR A LONG LASTING ROTOR

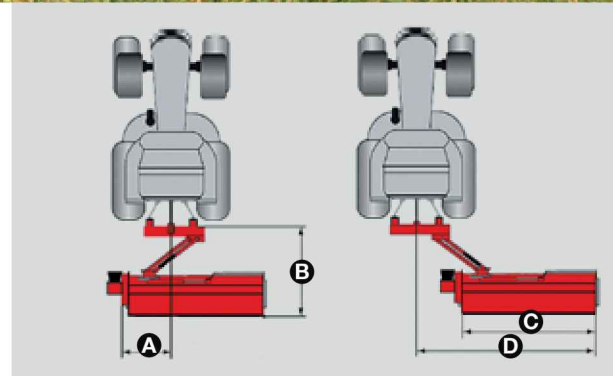
The patented hammer knives are made for shredding grassy areas. Their special shape prevents damages to the rotor in case of an accidental impact, thus avoiding rotor imbalance.



CLEAN, WELL-KEPT GRASSY AREAS

On the TB 10 series the roller is positioned as close as possible to the rotor. In this way, all shredded material is ejected over the roller for quicker decomposition than if it would be compacted. The visual result will speak for itself. Main benefits of this design:

- excellent ground contouring,
- automatic cleaning by knives.



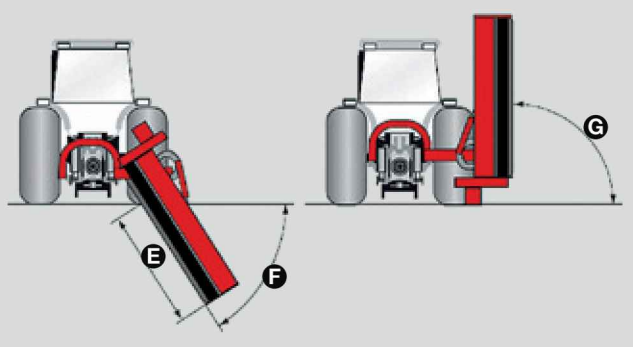
	TB 14	TB 16	TB 18
A	672 mm		
B	1,820 mm		
C	1,400 mm	1,600 mm	1,800 mm
D	2,160 mm	2,360 mm	2,560 mm
E	1,250 mm	1,450 mm	1,650 mm
F	-45°		
G	$+90^\circ$		

REDUCED MAINTENANCE AND DOWNTIME

A robust frame, a strong offset arm, pins and bushes that are protected against wear and a mechanical safety system on the linkage against impacts... all those features contribute to a long service life of the machine and less downtime. In compliance with current standards, there is also only one screw on the belt guards to loosen in order to access the belts.

A SOLUTION FOR EVERYDAY SHREDDING

Maintenance work on a farm encompasses most different situations and conditions, but will mostly be carried out in grassy areas on an irregular basis. The TB 100 Select series meets these versatile farmer's requirements in verge, ditch and bank shredding. The shredders can be hitched behind tractors of only 60 to 80hp.



A STRONG, BUT LIGHT MACHINE

Designed for working times between 40 and 100 hours per year, the TB 100 Select models are made for individual farms:

- made of high-resistance steel with an excellent weight/strength ratio;
- strong hitch frame of section 100 x 100mm;
- bolted sheet metal lining;

SHREDDING AS YOU WOULD EXPECT

On the TB 100 Select models, you can choose from hammer (for grass, pasture) or universal knives (for scrub clearing). One counter knife is standard as well. A 400mm rotor and a roller with removable ends complete the performing aspect.

	TB 181	TB 211
A	975 mm	975 mm
B	2,115 mm	2,115 mm
C	1,745 mm	2,030 mm
D	2,475 mm	2,760 mm
E	1,550 mm	1,850 mm
F		-65°
G		+90°



NON-STOP SAFETY BY SPRINGS

A non-stop safety by springs is available to protect the structure against impacts. In order not to exceed the yield strength of the springs, a mechanical stop has been added.

THE ULTIMATE MULTI-PURPOSE SHREDDER

The TBE 10 series is also designed for individual farms that need a versatile shredder to keep their field borders, hedges and other grassy areas tidy. An impressive offset feature ensures immaculate work between trees.



ROBUST AND RELIABLE

The TBE 16, 19 and 22 are perfect for 40 to 100 hours of utilization per year:

- large offset arms, made up by two twin tubular pieces of 140 x 60mm.
- welded sheet metal lining.
- bolted Hardox skids as standard to protect the casing on the roadside.

NON-STOP SAFETY

The spring-loaded NON-STOP safety device is fitted on the TBE 10 series to protect the casing from shocks when hitting an obstacle. Once the obstacle is cleared, the machine automatically returns to its initial working position.

CONVINCING SHREDDING RESULTS

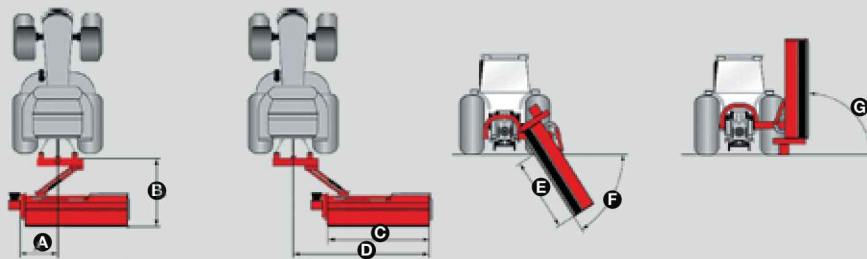
The TBE and TBES 10 series feature heavy hammer knives for operating in herbaceous residues and undergrowth. Universal knives, designed for scrub clearing, are also available. Two welded counter knives, a rotor of 425mm and a roller positioned very close to the rotor make up the ingredients needed for an impeccable work quality.

FOR PARTICULAR WORK POSITIONS

A wide-angle PTO joint is available as optional equipment, if you work regularly with the most important offset with your machine, or if you work regularly in vertical position.

MORE OFFSET FOR VERGE AND DITCH MAINTENANCE

The TBES 10 series completes the KUHN verge shredder range of multi-purpose machines, adding one important feature: its externally fitted gearbox. Farmers looking for a large offset to maintain their verges and ditches will find its kinematics very practical. In addition, these models boast all of the same great features that characterise TBE 10 shredders.



KINEMATICS THAT STAND FOR VERSATILITY

Through its design with an outer drive casing, the TBES 10 series has a larger lateral offset capability than the TBE 10 models. 2,661 to 3,290mm measured from the centre of the tractor are possible.

This characteristic means you can benefit from following advantages:

- It can work centered behind the tractor, offset or at an angle to work in ditches or on banks.
- It is the ideal shredder for extra-wide tractors.
- It is interesting for use in combination with a front-mounted shredder.

	TBE 16	TBE 19	TBE 22	TBES 16	TBES 19	TBES 22
A		695 mm			435 mm	
B		1,850 mm			1,850 mm	
C	1,531 mm	1,792 mm	2,144 mm	1,531 mm	1,792 mm	2,144 mm
D	2,401 mm	2,662 mm	3,030 mm	2,661 mm	2,922 mm	3,290 mm
E	987 mm	1,248 mm	1,596 mm	1,247 mm	1,508 mm	1,856 mm
F			-65°			
G			+90°			

TBE 102 SERIES VERSATILE AND STURDY!

TBE 102 series shredders have been specially designed for farmers and machinery cooperatives to meet the changing practices in farming and landscape maintenance. These heavy-duty shredders are made for higher workloads. With working widths of between 1.79 and 2.30 m, they efficiently take care of field edges and paths, as well as fallow land and grassy areas.



YOU MENTIONED VERSATILITY?

TBE 102 models are multi-purpose. They work behind the tractor for path maintenance, offset or tilted for the maintenance of ditches, banks and hedges. Work angles range from -65° (ditches) to $+90^\circ$ (hedges), and they manage grassy areas and undergrowth effectively.





HIGH-QUALITY SHREDDING

The shredding result will meet the expectations of professionals. Beside the extensive tool choice, two counter knives are welded inside the casing. The 180mm roller with removable ends is positioned closest to the rotor in order to prevent tamping residues and allow their fast decomposition. The curved lateral skids make the TBE 102 models glide smoothly over the ground.

RUGGED IN EVERY RESPECT

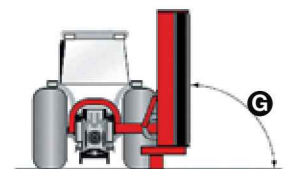
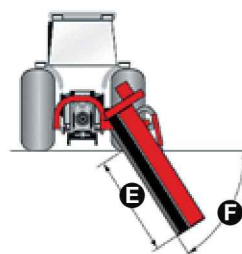
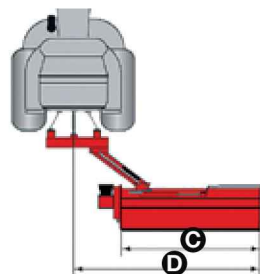
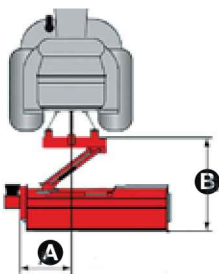
As is usual on KUHN shredders, also the TBE 102 series is made up of high-resistance steel. A 4mm welded sheet metal lining, protection bars at the front and a belt guard provide further protection and robustness. To prevent wear, the casing is protected by means of a bolted and curved Hardox skid: ideal for use on roadsides!



Some models are not available in all countries. Please always check with your local dealer.

CHOOSE THE RIGHT TOOL!

1. Heavy hammer knife: for grass and pastures
2. Universal knife: recommended for scrub clearing
3. Articulated scoop flails: for intensive work in grassy areas, adapted for landscape maintenance professionals



TBE 192

TBE 222

TBE 242

A	764 mm		827 mm
B			2,175 mm
C	1,792 mm	2,144 mm	2,295 mm
D	2,806 mm	3,158 mm	3,244 mm
E	1,200 mm	1,550 mm	1,700 mm
F			-65°
G			+90°

TBES 102 SERIES

HEAVY-DUTY WITH MAXIMAL OFFSET

Comparably versatile and performing in its use as the TBE 102 models, the working width of the new TBES 102 range extends even further. Three models with 2.14, 2.30 and 2.50m are available, recommended for tractors from 90 to 180hp. Due to their specific design they can be used with wider tractors. You have the same features and choice of knives as on the TBE 102 series.

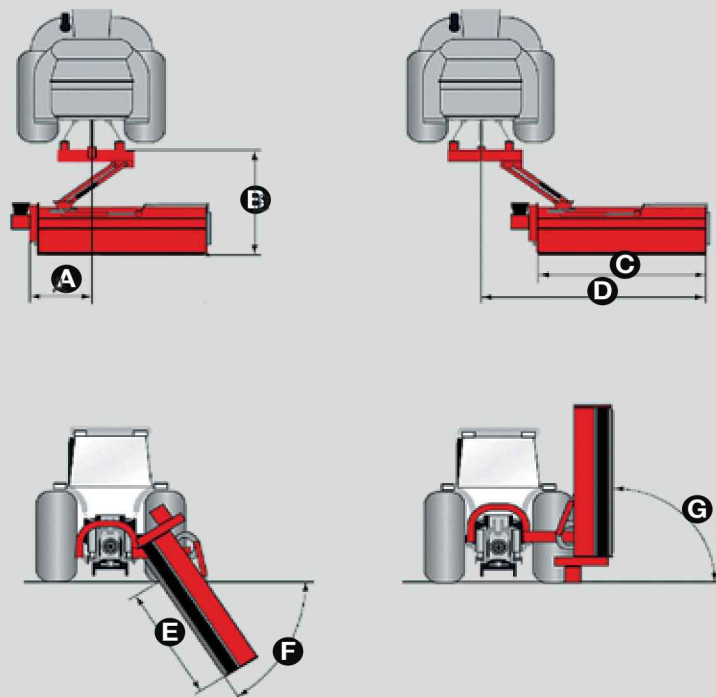




EVEN LARGER OFFSET

Through its design with an outer drive casing, the TBES has a large lateral offset capability. This characteristic means you can benefit from following advantages:

- The TBES is the ideal machine for wide tractors of 2.30m and more.
- The concept is interesting for use in combination with a front-mounted shredder.



	TBES 222	TBES 242	TBES 262
A		545 mm	
B		2,175 mm	
C	2,144 mm	2,295 mm	2,496 mm
D	3,376 mm	3,527 mm	3,728 mm
E	1,768 mm	1,918 mm	2,120 mm
F		-65°	
G		+90°	

FRONT OR REAR: NO NEED TO CHOOSE

Versatility and safety are the key features of this range of roadside mowers. With a power requirement of only 70 hp, the SPRING-LONGER S 1670 RTR is designed to meet the requirements of municipalities for mowing operations.



VERSATILITY IN ACTION

The SPRING-LONGER S 1670 RTR can be attached to the front or the rear of the tractor. Configuration change takes just a few minutes.

It can be used in combination with a hedge and grass cutter and is very useful when your tractors don't have front PTO.

ROADSIDES, DITCHES, BANKS AND HEDGES

It is equipped with a 580 mm hydraulic horizontal offset for mowing paths and roadsides (1). The vertical folding feature makes the machine narrower on the road (2). A 600 mm vertical offset comes as standard for mowing above road level. In "flat mowing", uneven ground is compensated for automatically to produce a neat and tidy cut.

For the maintenance of ditches, banks and hedges, the machine can work at angles of -55° to $+90^{\circ}$ (3). The mowing unit adapts easily to working conditions with the combination of the angle range, horizontal offset and vertical offset.



A PROFESSIONAL JOB

The 425 mm-diameter rotor is equipped with 42 articulated scoop flails and works a width of 1.60 m. With the large number of tools, residues are shredded finely and product intake is effective.



PROTECTED AGAINST IMPACTS

A NON-STOP hydraulic safety system with automatic reset is a standard feature of the machine. A hydraulic cylinder is pressurized by a nitrogen ball.

In the event of impact, the mower unit can shift 720 mm to the rear. It returns to work position automatically.

The casing is reinforced with a sheet metal plate as standard.



HIGH-CAPACITY DRIVE

The SPRING-LONGER S 1670 RTR is designed for tractors with maximum power of 120 hp (machine solo).

Rotation speed is 540 or 1,000 rpm, selected by simple pulley inversion. Power transmission is by four V-belts.



SPRING-LONGER

RP / RPF 80 SERIES

AN OUTSTANDING PERFORMER!

SPRING-LONGER 80 series models offer truly professional roadside mowers, designed for high work output. Available in rear or front mount, the SPRING-LONGER 80 series is also a benchmark in terms of versatility with its capacity to mow a wide variety of verges. With its 900 mm horizontal offset and vertical offset as an option, together with its front/rear safety feature and 100% effective mower unit, your investment is guaranteed to be profitable!



FRONT AND REAR SAFETY!

To improve on-the-job flexibility and reduce mechanical stress, all SPRING-LONGER 80 series models are equipped with a double hydraulic safety function. Due to the specific nature of the cylinder, the mower unit can pivot rearwards in the event of a frontal collision **(1)** and forwards if the driver does an unintentional reversing manoeuvre **(2)**. Resetting is automatic thanks to the three nitrogen ball accumulators fitted to the machine as standard **(3)**.



STRUCTURE: INTENSIVE USE

MOWER UNIT: SPEED AND QUALITY OF WORK

High mowing rates can be achieved due to the geometry of the mower head, developed without a "bottleneck", and its 120 hp gearbox (4).

The rotor bearing is incorporated into the gearbox for improved protection. Quality of work is assured by the high rotor speed of 2,530 min⁻¹. The XTREM sensor roller is equipped with removable ends and a large-diameter tube (168 mm) (5).

To ensure long life, the shredding unit skids are made of hardened steel whereas the casing is designed with double-thick steel plate. The rotor is equipped with wire protection devices for improved protection of the half-bearing. Four automatically tensioned cog-type V-belts drive the rotor (6). The speed is changed (540 or 1000 min⁻¹) simply by reversing the pulleys.



4



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BUILT-IN RELIABILITY!

The uniform design features reassembled, non-tubular components in very high yield steel. It ensures greater mechanical strength while reducing the weight of the structure. All joints are mounted on cell-type bushes.



HORIZONTAL PIVOT OFFSET MAKES ALL THE DIFFERENCE!

With the hydraulic pivot concept, a huge 900 mm horizontal offset can be reached. The mower unit can avoid obstacles easily and effectively. The pivot also makes it possible to work behind part of the tractor wheel on narrow paths. The tractor-machine assembly is more compact, offering maximum safety to road users.



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VERTICAL OFFSET: AN ESSENTIAL FEATURE!

For maximum versatility, the RP models in the SPRING-LONGER 80 series range are equipped with a hydraulic lift function. In "flat mowing" and "bank" mode the lift cylinder automatically compensates for unevenness along the verge. It complements the mower unit slewing cylinder. The mower head lifts, lowers and tilts without any operator action (7). In "ditch" mode, the vertical offset function lifts the mower unit 600 mm. The universal joint is in a good working position with higher ground clearance. The 70° head angle can therefore be used to its full potential (8). In "clearing" mode, it is possible to mow above road level (9).

PRO

THE MOUNTAINEER AMONG THE LANDSCAPE SHREDDERS!

This front-mounted shredder is the right one for intensive agricultural or landscape maintenance work, especially on slopes. From roadside maintenance to scrub clearing work, the two shredder models are also adequate for upland meadow maintenance.



A «PRO» STRUCTURE



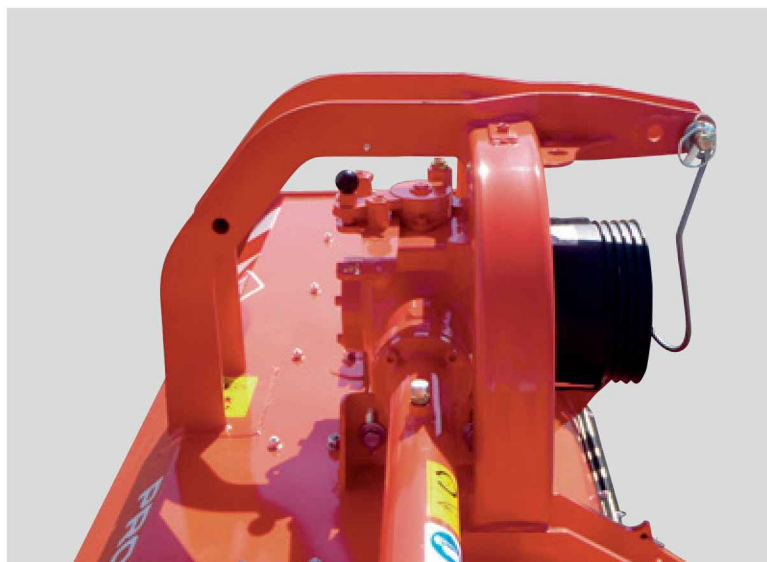
A COMPACT MULTI-PURPOSE UNIT

The PRO shredders are ideally adapted for coupling to REFORM and AEBI tractors, especially designed for working on slopes. An overhang reduced to a minimum ensures excellent load distribution and perfect stability.

The PRO has been designed to withstand the toughest conditions, owing to:

- its structure made of high-yield strength steel (Domex) integrating two transversal beams;
- its inner and outer reinforcements at the point where the tractor lift arms are attached;
- its bolted sheet metal lining for optimum protection against wear and shocks.

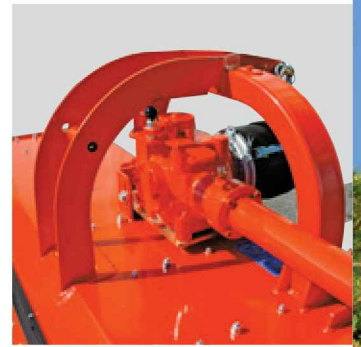
Apart from these assets the designers have also focused on weight reduction. The specific steel ensures that you will benefit from an improved weight /robustness ratio.



THE KUHN PLUS



Standard gearbox



Two-way rotor gearbox

OPTIMUM FLEXIBILITY

According to the working conditions, the PRO can be equipped with a standard or two-way rotor gearbox. In difficult conditions with a high presence of scrub and wood residues, the latter will provide you with the flexibility you need.



HIGH-FLOW, HIGH-QUALITY

Even at high speed, the PRO shreds impressive quantities of plants thanks to the large 470mm diameter rotor, its helical tool layout and a drive speed of 2,300 min⁻¹. To adjust the shredding fineness to your requirements, the casing includes a retractable counter-knife.



FLAWLESS WORK QUALITY

Articulated universal knives are adapted to shred grass and scrub in all situations (roadsides, scrub clearance, green spaces, pastures). Results ensured with standard or two-way rotor gearbox!



EXCELLENT GROUND FOLLOWING

According to the working conditions, the PRO shredders will follow the terrain reliably in order to reduce maintenance costs. This is possible due to the roller of 160mm diameter and with removable ends, which is positioned closest possible to the rotor.



RELIABLE ALSO IN INTENSIVE WORKING CONDITIONS

To meet the most intensive use criteria, the PRO shredder is fitted with:

- a central gearbox that accepts a maximum power of 150hp.
- a rotor drive per POWERBAND XPB 3 strand belt.
- side skids with interchangeable wearing parts in order to reduce wear and operating costs.

Specifications

Offset arm verge shredders

	TB 14	TB 16	TB 18	TB 181 SELECT	TB 211 SELECT	TBE / TBES 16	TBE / TBES 19	TBE / TBES 22	TBE 192	TBE / TBES 222	TBE / TBES 242	TBES 262
Attachment	3-point - cat. 1 & cat. 2					3-point - cat. 2						
Working width (m/ft)	1.40/ 4'6"	1.60/ 5'3"	1.80/ 5'11"	1.75/ 5'9"	2.03/ 6'8"	1.53/ 5'	1.79/ 5'10"	2.14/ 7'	1.79/ 5'10"	2.14/ 7'	2.30/ 7'7"	2.50/ 8'2"
Overall width (m/ft)	1.60/ 5'3"	1.80/ 5'11"	2.00/ 6'7"	2.04/ 6'8"	2.33/ 7'8"	1.78/ 5'10"	2.04/6'8" (TBE) 2.33/7'8" (TBES)	2.39/7'10" (TBE) 2.68/8'10" (TBES)	1.98/6'6"	2.42/7'1" (TBE) 2.70/8'10" (TBES)	2.57/8'5" (TBE) 2.92/9'7" (TBES)	3.12/ 10'3"
PTO speed (min ⁻¹)	540											
Tractor power requirement (kW/hp)	26/35	29/40	37/50	48/65	51/70	44/60	51/70	59/80		66/90	74/100	81/110
Max. authorized DIN motor power at 540 min ⁻¹ (kW/hp)	63/80			81/110				96/ 130	110/ 150	125/ 170	132/ 180	
Free wheel	◆ (built into the casing)											
Number / type of belts	2 / SPBX	3 / SPBX			3 / SPBX		4 / SPBX	4 / SPBX				
Rotor diameter (mm/in)	425/16.7"			400/15.7"		450/17.7" (TBE) 425/16.7" (TBES)		450/17.7"				
Rotor speed	2,218					2,325			2,203			
Linear speed of tools (m/s)	44			47		52			52			
Number of hammer knives	20	24	28	24	28	-			20	24	26	28
Number of heavy hammer knives	-					18	20	24	-			
Number of universal knives	-			48	56	36	40	44	40	48	52	56
Number of articulated scoop flails	-								48	54	60	66
Number of counter-knives	1 (welded)			1 (bolted, notched)		2 (welded, smooth)			2 (welded)			
Height adjustment	by roller with fixed ends			by roller with removable ends		by roller with fixed ends			by roller with removable ends			
Roller diameter (mm/in)	160			140		168			180			
Sheet metal lining	-			◆ (bolted, 4 mm)			◆ (welded, 4 mm)					
Non-stop safety system	◆ (mechanical)			◆ (spring with mechanical stop)		◆ (mechanical link hitch)			◆ (spring with mechanical stop)			
Weight with equipment (kg/lbs)	460/ 1,014	480/ 1,058	500/ 1,102	760/ 1,676	780/ 1,720	744/ 1,640	774/1,706 (TBE) 815/1,795 (TBES)	804/1,773 (TBE) 890/1,960 (TBES)	925/ 2,039	970/2,138 (TBE) 1,015/ 2,238 (TBES)	1,000/2,205 (TBE) 1,045/2,304 (TBES)	1,070/ 2,359
Required hydraulic equipment	1 x SA + 1 x DA											

◆ standard ◇ option -- not available

Optional equipment: wide-angle PTO - cable control.



be strong, be **KUHN**

KUHN PARTS

Designed and manufactured to rival time

KUHN foundries and forge as well as a high-level manufacturing process allow the production of spare parts to defy time. You can truly rely on our know-how and our genuine parts. Farmers benefit from our client support and logistics services via any KUHN PARTS warehouse, which provide quick and reliable repair solutions in cooperation with your nearest authorized KUHN dealer.



Specifications

Front-mounted shredders

	PRO 180	PRO 210
Attachment	3-point, cat. 1 and 2	
Working width (m/ft)	1.75/5'9"	2.10/6'11"
Overall width (m/ft)	2.03/6'8"	2.40/7'10"
PTO speed (min ⁻¹)	540 or 1,000 (to specify when ordering)	
Tractor power requirement (kW/hp)	45/60	50/70
Max. authorized DIN motor power at 1,000 min ⁻¹ (kW/hp)	110/150	
Free wheel	on primary PTO	
Number / type of belts	1 / Powerband 3 strands XPB	
Rotor diameter (mm/in)	470/1'7"	
Linear speed of tools (m/s)	2,295 (PTO speed 540 min ⁻¹) 2,317 (PTO speed 1,000 min ⁻¹)	
Tool speed (m/s)	58 (PTO speed: 540 or 1000 min ⁻¹)	
Number of articulated universal knives	36	42
Type of tools	Universal flails on shackle	
Shackle diameter (mm/in)	14/0.55"	
Height adjustment	Ø 160 mm roller with removable ends	
Required hydraulic equipment	1 DA	
Weight with equipment (kg/lbs)	475/1,047	535/1,180

Specifications

Professional-duty roadside mowers

	SPRING-LONGER					
	S 1670 RTR	1680 P(L)	1680 RP(L)	2080 RP(L)	2380 RP(L)	1680 RPF(L) 2080 RPF(L)
Position of the mower unit	side rear (right or left)					front (right or left)
Working width (m/ft)	1.60/5'3"	1.60/5'3"	2.00/6'7"	2.30/7'7"	1.60/5'3"	2.00/6'7"
Vertical offset (m/ft)	0.60/2'	-	0.60/2'			
Ditch angle	-55°	-70°				
Bank angle	90°					
Transport height with 0.5 m ground clearance (m/ft)	2.88/9'5"	2.60/8'6"	3.00/9'10"	3.30/10'10"	2.60/8'6"	3.00/9'10"
Horizontal offset (m/ft)	0.58/1'11"	0.90/2'11"				
Mower unit safety	hydraulic, independent, in forward and backward drive				rear hydraulic	
Attachment	3-point, cat. 2	semi-automatic hitch, cat. 2 or 3				
STABI-LINK frame	-	◇				-
PTO speed (min ⁻¹)	540 or 1,000 (by reversing the pulleys)					
Belts	4 cog-type V-belts					
Linear speed of tools (m/s)	2,210 (540 min ⁻¹) / 2,347 (1,000 min ⁻¹)		2,530			
Shackle diameter (mm/in)	13	14				
Number of articulated scoop flails	42	42	54	60	42	54
Rotor tube diameter (mm/in)	152/6"					
Outer diameter of rotor (mm)	425/16.7"	-				
Sensor roller diameter (mm/in)	160/6.3"	168/6.6"				
Sensor roller type	with removable ends	XTREM with removable ends				
Ejection guards	◆	◆ (front and rear flaps)				
Bumpers and lighting/signalling	◆					
Hydraulic offset	◆	◆				
Hydraulic Non-Stop safety	◆	◆				
Power requirement (kW/hp)	51/70	59/80				
Min. tractor weight (kg/lbs)	3,500/7,716				5,000 (4,000 to 4,500 reinforced linkage)	
Required hydraulic equipment	1 SA (with float position) + 1 DA	1x SA + 1x DA + electric circuit selector				
Weight (kg/lbs)	950/2,094	1,285/2,833	1,365/3,009	1,425/3,142	1,285/2,833	1,365/3,009

◆ standard ◇ option -- not available

Optional equipment: may vary from one country to another.

DECIDE FOR THE SHREDDER, WHICH EXACTLY FITS YOUR NEEDS!

Offset arm verge shredders

	TB	TBE	TBES	SPRING-LONGER		PRO
				70	80	
Intensity of use	+	++	+++	+	+++	+++
Front / rear attachment		rear		rear + front		front

+++ optimum ++ very good + good o suitable

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1 & 2. Hedge and grass cutters (left or right) with a horizontal reach of up to 7.40 m **3.** Salt and sand spreaders

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