Shredders

BV / BKE / SDS SERIES









A SHREDDER TO MEET ALL YOUR NEEDS

THE KUHN SHREDDER RANGE FEATURES VERSATILE AND RELIABLE MACHINES TO FIT INTO A WIDE VARIETY OF ORCHARD AND VINEYARD APPLICATIONS, OR ANYWHERE ELSE A SHREDDER IS REQUIRED.







KNIVES TO MATCH YOUR NEEDS
Different shredder models feature different knife styles to meet the needs of your operation. Hammer knives power through prunings and branches up to 3" (7.7 cm) in diameter, and articulated universal knives shred grass and weeds with the flexibility to clear small, hidden obstacles.

RETURN NUTRIENTS TO THE SOIL
In addition to the knives, many other KUHN shredder features help finely shred material and quickly return nutrients and other organic materials to the soil. Counterknives are mounted inside the hood to process material, while the rear roller optimizes cutting height.

Models	Working Width	Standard Knives	Minimum HP Requirement
BV 10	38.8" (1 m)	Hammer	35 hp (26 kW)
BV 12	45.3" (1.2 m)	Hammer	40 hp (29 kW)
BV 14	52.8" (1.3 m)	Hammer	45 hp (33 kW)
BV 16	60.2" (1.5 m)	Hammer	50 hp (37 kW)
BV 160	60.2 (1.5 m)	Hammer	50 hp (37 kW)
BV 180	67.7 (1.7 m)	Hammer	60 hp (44 kW)
BV 200	75.2" (1.9 m)	Hammer	65 hp (48 kW)
BV 220	82.3" (2.1 m)	Hammer	70 hp (51 kW)
BV 240	89.8" (2.3 m)	Hammer	75 hp (55 kW)
BKE 150	60" (1.5 m)	Articulated Universal	40 hp (29 kW)
BKE 180	72" (1.8 m)	Articulated Universal	60 hp (44 kW)
BKE 210	84" (2.1 m)	Articulated Universal	65 hp (48 kW)
SDS 150	57.5" (1.5 m)	Hammer	40 hp (30 kW)
SDS 180	68.9 (1.8 m)	Hammer	50 hp (37 kW)
SDS 210	79.9" (2.0 m)	Hammer	60 hp (45 kW)

Summary

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FEATURES AND RELIABILITY THAT FIT INTO YOUR ROWS

BV 10 Series shredders finely shred grass, vine shoots and prunings. Ideal for narrow row orchards and vineyards, the BV 10 Series models are available in working widths from 38" to 60" (0.96 m to 1.53 m).







FINE SHREDDING WITH HAMMER AND COUNTERKNIVES

The hammer knives power though clippings and brush and feature a curved back to reduce damage to the rotor if a hard obstacle is struck. The specially designed retaining pins maintain a firm hold on the knives year after year. An industry leading feature on the BV shredders is the three rows of counterknives located right inside the hood. They help to provide fine processing of material for quick decomposition.



LOW PROFILE FOR MAXIMUM CLEARANCE

These shredders have a hood without protrusions, screw heads, or sharp angles to catch on trellis lines or low lying branches. The reduced hood height allows the BV shredders to slide under the lowest wires without damaging the vines or the trellises.



VERSATILE REAR ROLLER

The rear roller features removable ends, allowing a bearing to be replaced without replacing the entire roller. It also features multiple height adjustments that leave the optimal grass height in a variety of situations. In addition to the height adjustment capability, forward and rearward positions are possible.

SHREDDERS **BV 100 SERIES**

MAINTAIN PRISTINE ORCHARDS AND VINEYARDS

BV 100 Series shredders finely shred grass, vine shoots and prunings. Available in wide working widths from 60" to 90" (1.53 m to 2.28 m) for greater productivity in a large variety of orchard and vineyard applications with wider row spacing.





RELIABLE AND EASY TO SERVICE MAIN GEARBOX

All BV shredders utilize a simple 540 rpm PTO drive. The BV 100 models are rated for tractors up to 110 hp (82 kW). A shaft transmits power from the main gearbox to the PowerQuad IV rotor drive belts.



SIDE SHIFT CAPABILITY

BV 100 Series models feature mechanical side shift capability as standard. This allows the operator to offset the unit, relative to the tractor, for shredding underneath plants or overhanging obstructions.

Hydraulic side shift capability is available as an additional option. As conditions change, the operator can adjust the offset from the comfort of the tractor seat.

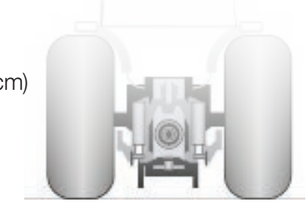


LARGE HOOD OPENING

To help the machine pass easily under low-hanging plants and vines, the 100 Series was designed with an especially low profile in mind. The hood opening has been increased to 12.6" (32 cm) on the BV 100, which is among the best in the industry. These large clearances increase throughput, with easy feeding of branches and prunings, especially in windrows.

A SHREDDER TO MEET ALL YOUR NEEDS!

- Central position behind tractor (in/cm)
- Lateral offset (in/cm)



	Left	Right
BV 160	30.1" (76.5 cm) 15.9" (40.5 cm)	30.1" (76.5 cm) 44.3" (112.5 cm)
BV 180	33.9" (86 cm) 16.1" (41 cm)	33.9" (86 cm) 51.6" (131 cm)
BV 200	37.6" (95.5 cm) 19.9" (50.5 cm)	37.6" (95.5 cm) 55.3" (140.5 cm)
BV 220	41.1" (104.5 cm) 23.4" (59.5 cm)	41.1" (104.5 cm) 58.9" (149.5 cm)
BV 240	44.9" (114 cm) 27.2" (69 cm)	44.9" (114 cm) 62.6" (159 cm)

Tractor centerline

RAISING THE BAR TO MAINTAIN GRASSY AREAS

With articulated universal knives as standard equipment, the BKE Series machines are well suited to shredding wide-row orchards and vineyards, as well as other areas where the ground cover is primarily grass with the potential for small hidden obstacles.



DON'T LET WEEDS, PESTS OR DISEASES INTO YOUR FIELD

Many weeds migrate from the border into the field and spread if not held in check. An effective precautionary measure is to shred grass strips on the field's borders to lock out invasive species.



SUPPORTING SOIL FERTILITY

Improving soil fertility by incorporating organic matter into the soil is the most important aspect of shredding. The finer the residue is shredded, the bigger the surface area for microorganisms to attack and transform the organic matter into humus. Benefits of high humus content include improved soil structure and stability, and increased biological activity.



EFFECTIVE DESTRUCTION OF AN INTERMEDIATE CROP

Shredding intermediate crops to weaken and destroy them before seeding the next crop is an effective alternative to chemical treatment.





ARTICULATED UNIVERSAL KNIVES

All BKE shredders feature heavy, articulated universal knives as standard. The "Y" shape effectively shreds grass, weeds, and small residue into fine pieces for quick breakdown. If small obstructions are hidden in the grass, the articulation provides enough flexibility to clear them without major damage to the knife or machine.



HITCH

Two types of hitch options are available and can be used on the BKE shredder:

- Hitch with a hydraulic offset
- A fixed two-position coupling (centered and offset)



LESS WEAR WITH IMPROVED PROTECTION

1. An optional bolted 4 mm thick sheet metal lining is available for inside the hood. This liner minimizes wear and provides additional protection against foreign objects.

2. For intensive work, the standard roller and removable ends (fitted with reinforced roller bearings) are ideal. These bearings require minimum maintenance and are easy to replace without having to replace the entire rotor.

3. Optional skids, combined with the roller, protect the side walls, improve the machine's stability, and provide additional guidance to better follow irregular ground.



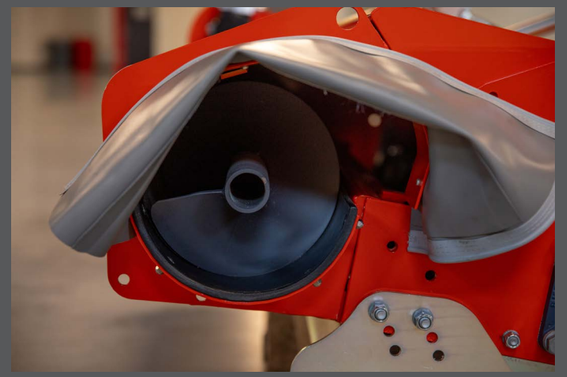




SHREDDERS **SDS SERIES**

SIDE-DISCHARGE SYSTEM FOR ENHANCED VERSATILITY

KUHN SDS Series shredders, with KUHN's proven gearbox and belt system, offer orchard and vineyard operators an innovative solution for maintaining grassy inter-rows. The patented side-discharge auger system delivers the clippings to the foot of the plants, increasing the concentration of organic matter in the root zone. An independent hydraulic drive means the auger discharge can be fine-tuned to match the ground speed and working conditions. With models offering working widths from 57.5" to 79.9" (1.5 to 2.0 m), there is an SDS model for any orchard or vineyard.



SIDE-DISCHARGE AUGER

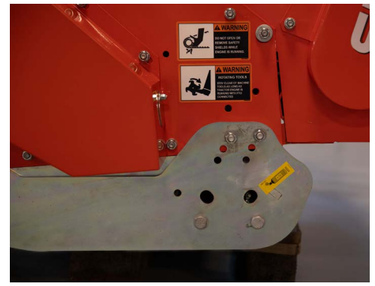
The right-hand, side-discharge auger directs clippings from the cutting rotors to the base of trees or vines in a 12"–16" (30–40 cm) strip. The auger is hydraulically driven, allowing the operator to adjust the speed of the auger to match working conditions.

In heavier conditions, such as prunings or light woody materials, the auger can be easily removed to prevent plugging.



HYDRAULIC SIDE SHIFT

To extend the machine's reach and facilitate work under wide tree canopies, the hitch is capable of an offset up to 13.8" (35 cm) to the right. This offset is hydraulically controlled so the operator can adjust the machine without having to leave the tractor seat.



HEIGHT ADJUSTMENT

A rear-mounted roller sets the cutting height of the machine and allows the SDS to follow ground contours. Three adjustment slots are available to match the operator's preferences, and convenient access holes on each side simplify greasing the roller bearings.



AUGER SPEED ADJUSTMENT

The discharge auger is driven hydraulically via a tractor SCV. Turning the knob on the adjustment valve allows the operator to fine-tune the speed of the auger to match the working conditions.



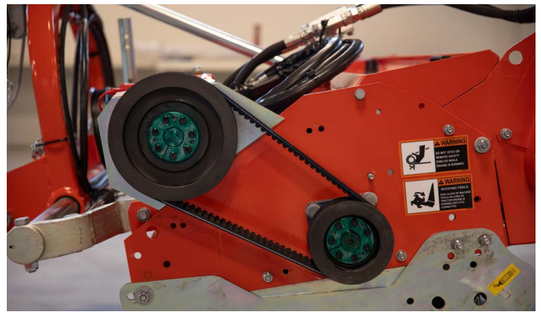
HAMMER KNIVES

The hammer knives power through grass, weeds and cover crops. These knives and the rotor tube are carefully manufactured and tested for ideal balance, which provides smoother operation and longer life.



COUNTER KNIVES

Two rows of counterknives mounted on the underside of the hood help to grind material into finer pieces for easier discharge and faster decomposition.



ROTOR DRIVELINE

The main gearbox of the SDS is driven at a PTO speed of 540 rpm. The output shaft of the gearbox connects to a triple belt drive on the side of the machine to drive the main cutting rotor. This proven design is durable, while reducing noise and simplifying maintenance compared to a chain or gear drive.

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OPTIONAL EQUIPMENT



SIDE TRIMMING DISC

The side trimming disc is well suited for orchards or other applications. The spring-loaded disc reaches between trees to mow. When the outer bumper contacts an obstacle, the spring system moves back to avoid damage

BV 10 and 100 Series only.



SIDE SKIDS

Optional side skids (circled) help protect the machine in rough ground conditions by preventing contact between the knives and the soil below.

Available on all BV and BKE Series models.



PNEUMATIC WHEELS

These optional wheels mount to the rear of the shredder and help smooth the ride and reduce stress on the machine. They can be easily adjusted and are a great choice for uneven terrain.

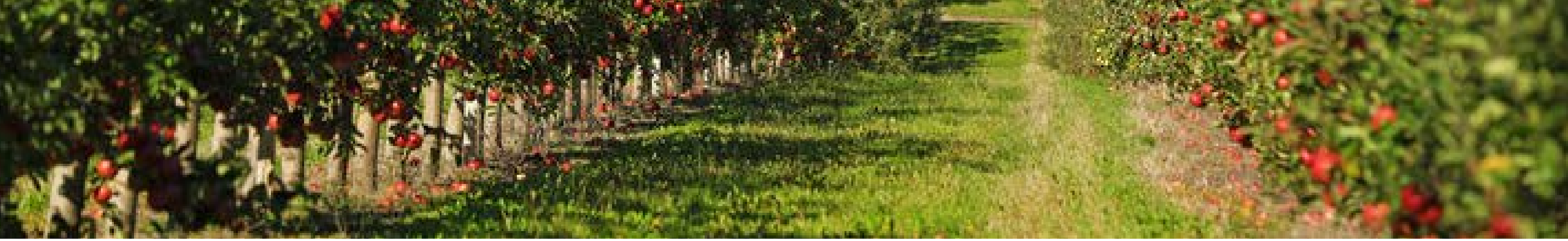
BKE Series only.



COLLECTING RAKE

The optional collecting rake is perfect for operations that shred large amounts of prunings and small branches. The adjustable tines keep the material close to the rotor for finer processing.

BV 10 and 100 Series only.



Technical Specifications

	BV 10	BV 12	BV 14	BV 16
Working width	37.8" (0.96 m)	45.3" (1.15 m)	52.8" (1.34 m)	60.2" (1.53 m)
Overall width	42.5" (1.08 m)	50.0" (1.27 m)	58.3" (1.48 m)	65.7" (1.67 m)
Outer rotor diameter	15.7" (398 mm)			
Tool linear speed	112 mph (50 m/s)			
Number of heavy hammer knives	12		16	
Working height adjustment	Roller with removable ends			
Roller diameter	5.5" (14 cm)			
PTO speed	540 rpm			
Number of belts	2		3	
Rotor speed	2,404 rpm			
Minimum PTO power requirement	35 hp (26 kW)	40 hp (29 kW)	45 hp (33 kW)	50 hp (37 kW)
Maximum PTO power	90 hp (67 kW)			
Maximum diameter of prunings or brush	2" (51 mm)			
Hitch	3-point - Cat. 1			
Hitch offset	None			
Machine net weight approx. with roller	661 lbs (300 kg)	794 lbs (360 kg)	860 lbs (390 kg)	970 lbs (440 kg)

Technical Specifications

	BV 160	BV 180	BV 200	BV 220	BV 240
Working width	60.2" (1.53 m)	67.7" (1.72 m)	75.2" (1.91 m)	82.3" (2.09 m)	89.8" (2.28 m)
Overall width	65.7" (1.67 m)	73.2" (1.86 m)	81.5" (2.07 m)	88.6" (2.25 m)	96.0" (2.44 m)
Outer rotor diameter	16.7" (423 mm)				
Tool linear speed	115 mph (51.5 m/s)				
Number of heavy hammer knives	16	18	20	22	24
Working height adjustment	Roller with removable ends				
Roller diameter	6.3" (16 cm)				
PTO speed	540 rpm				
Number of belts	3		4		
Rotor speed	2,325 rpm				
Minimum PTO power requirement	50 hp (37 kW)	60 hp (44 kW)	65 hp (48 kW)	70 hp (51 kW)	75 hp (55 kW)
Maximum PTO power	110 hp (82 kW)				
Maximum diameter of prunings or brush	3" (76 mm)				
Hitch	3-point - Cat. 1		3-point - Cat. 2		
Hitch offset	Mechanical - up to 13.8" (35 cm) to the right	Mechanical - up to 17.7" (45 cm) to the right			
Machine net weight approx. with roller	1,146 lbs (520 kg)	1,235 lbs (560 kg)	1,367 lbs (620 kg)	1,499 lbs (680 kg)	1,609 lbs (730 kg)

Technical Specifications

	BKE 150	BKE 180	BKE 210
Working width	60" (1.52 m)	72" (1.83 m)	84" (2.14 m)
Overall width	66" (1.65 m)	80" (2.03 m)	93" (2.36 m)
Outer rotor diameter	16.7" (425 mm)		17.7" (450 mm)
Tool linear speed	110 mph (49 m/s)		116 mph (52 m/s)
Number of articulated Y knives	36	40	48
Working height adjustment	Roller with removable ends		
Roller diameter	6.3" (16 cm)		
PTO speed	540 rpm		
Number of belts	3		4
Rotor speed	2,203 rpm		
Minimum PTO power requirement	40 hp (29 kW)	60 hp (44 kW)	65 hp (48 kW)
Maximum PTO power	80 hp (59 kW)	100 hp (74 kW)	
Hitch	3-point - Cat. 1 & 2	3-point - Cat. 2	
Hitch offset	11" (27.9 cm)	18" (45.7 cm)	
Machine net weight approx. with roller	1,168 lbs (530 kg)	1,345 lbs (610 kg)	1,455 lbs (660 kg)

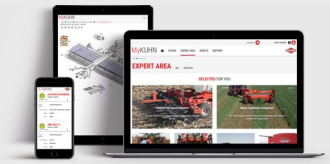
Technical Specifications

	SDS 150	SDS 180	SDS 210
Working width	57.5" (1.5 m)	68.9" (1.8 m)	79.9" (2.0 m)
Overall width	70.9" (1.8 m)	82.7" (2.1 m)	93.7" (2.4 m)
Outer rotor diameter	15.5" (394 mm)	15.7" (400 mm)	
Tool linear speed	107 mph (47.7 m/s)	109 mph (48.5 m/s)	
Number of heavy hammer knives	20	24	28
Working height adjustment	Fixed roller		
Roller diameter	5.5" (14 cm)		
Auger delivery	Right side only		
Required hydraulic flow rate	8.7 gpm (33 L/min)		
PTO speed	540 rpm		
Rotor speed	2,207 rpm		
Minimum PTO power requirement	40 hp (30 kW)	50 hp (37 kW)	60 hp (45 kW)
Maximum PTO power	95 hp (70 kW)	110 hp (82 kW)	110 hp (82 kW)
Hitch	3-point - Cat. 1 and 2		
Hitch offset	Hydraulic - up to 13.8" (35 cm) to the right		
Required tractor hydraulic connections	2 DA		
Machine net weight approx. with roller	1,036 lbs (470 kg)	1,168 lbs (530 kg)	1,312 lbs (595 kg)

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