

SHAKTIMAN **BALE MASTER** **175**



CHAINLESS DRIVE SYSTEM

NEXT GENERATION GREASELESS KNOTTER

HYDRAULIC SWING DRAWBAR

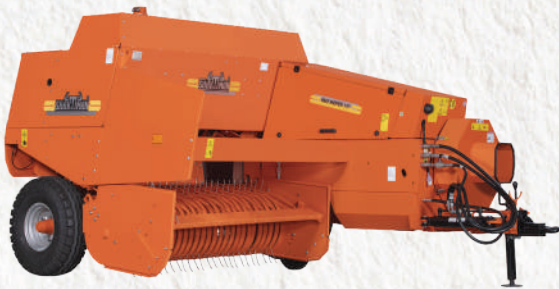
MAIN DRIVE WITH OVERLOAD PROTECTION

PICK-UP TINE BARS WITH MAINTENANCE-FREE BALL BEARINGS

EFFICIENT SELF-DEFLECTING FEEDERS WITH HYDRO ACCUMULATOR

Introducing Shaktiman SBM 175

SHAKTIMAN square baler offers efficient baling of hay, straw, or other crops with its compact and uniform shape, optimizing storage and transportation. Its square bales are stackable, facilitating easy loading, unloading, and storage, making it a preferred choice for farmers aiming for streamlined operations and space-saving solutions.



COMPACT & HEAVY BALES

NEXT GENERATION GREASELESS KNOTTER

TROUBLE FREE OPERATION FOR MINIMUM DOWNTIME

MORE COVERAGE SAVE TIME & MONEY

STURDY & RELIABLE

Why Shaktiman Square Baler is the Smarter Choice

Manual Straw Collection – A Major Challenge

Manual straw gathering is exhausting, time-consuming, and highly dependent on weather, making it unappealing to workers and reducing overall productivity.

Time-consuming

Labor-intensive

Low productivity

Weather-dependent

Often results in straw burning



Handling loose straw is a tedious, labor-intensive task that requires skill and extra manpower, making the process time-consuming, costly, and inefficient.

Required skilled task

Inefficiency

Chances of spoiling straw stack

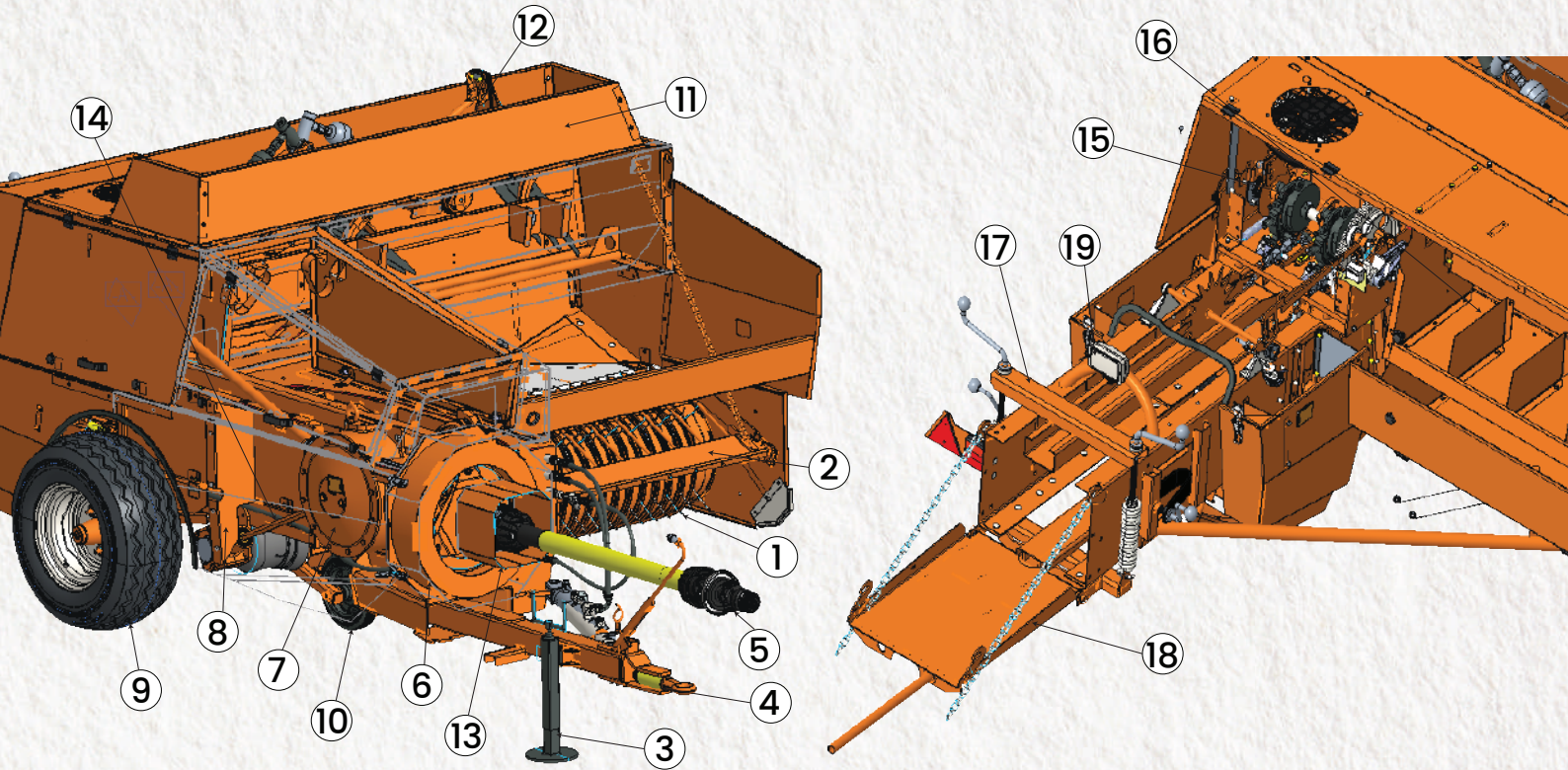


Burning Straw

The time between harvesting the 1st crop and planting the 2nd crop is very short. Collecting, transporting, and stacking loose straw is time-consuming, labor-intensive, and costly. As a result, farmers often burn the straw to quickly clear the field and prepare it for the next crop.



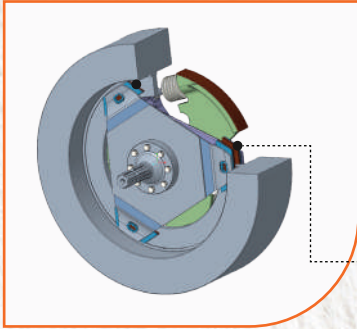
KNOW YOUR PRODUCT



The main components of the machine are as follows:

- | | |
|----------------------------------|------------------------|
| 1) Pick-Up | 2) Pick-up guard rake |
| 3) Parking Jack or Parking Stand | 4) Drawbar |
| 5) CV joint PTO | 6) Flywheel |
| 7) Transmission | 8) Gear Box |
| 9) Wheel & Axel | 10) Pickup gauge wheel |
| 11) Feeder Housing | 12) Cross feeder |
| 13) PTO Cover | 14) Piston |
| 15) Twine Knotter Assembly | 16) Twine Box |
| 17) Bale Tensioner | 18) Bale Chute |
| 19) Working Lamp | |

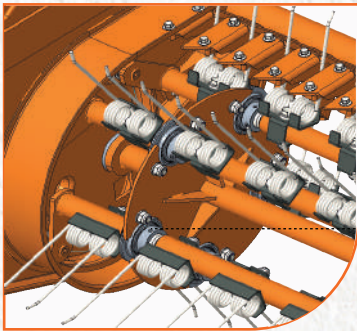
SBM 175 | FEATURES



MAIN DRIVE WITH OVERLOAD PROTECTION

- Six Triangular friction clutches, Three in front – Three behind the flywheel and three-block friction clutch at flywheel internal diameter, protect the universal joint and the tractor as well as the baler drive.
- This function is fully automated with an auto-reset clutch

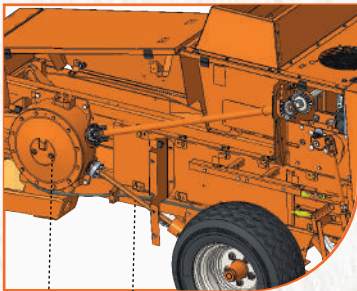
Triangular friction Clutch plate



PICK-UP TINE BARS FITTED WITH BALL BEARINGS

- Uses strong, maintenance-free ball bearings for the tine bars.
- This high-specification construction quickly pays off in terms of the service life.
- The double tines, made out of particularly high-quality spring steel, also have special tine support plates. This also substantially increases the lifetime of the tine

Maintenance-free ball bearings

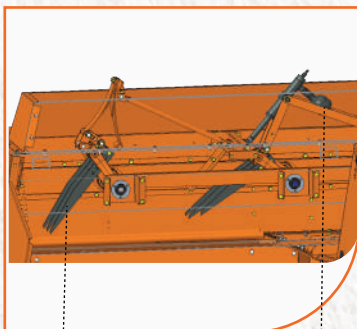


CHAINLESS DRIVE

- In order to guarantee the accurate timing of all components over the entire lifetime of a baler, the feeders and knotters are driven entirely via torsion ally rigid shafts and gears.
- From the main hypoid gearbox, the drive is transmitted via a drive shaft and angular gear to the feeder, knotter and needle drive. No chains or belts are used; even the pick-up is driven by a shaft.

Hypoid gearbox

Pickup Drive



EFFICIENT SELF-DEFLECTING FEEDERS WITH HYDRO ACCUMULATOR

- The Feed consists of two self-deflecting feeders which prevent blockages caused by foreign objects and damage to the machine.
- The self-deflecting feeder, which do not require the normal shear bolt, can deflect in the case of an overload and then automatically reposition themselves ready for operation. After several piston strokes, the blockage will be cleared. The benefits are clear due to the use of hydro accumulator, a further development of the tried-and-tested self-deflecting feeders.

Feeders

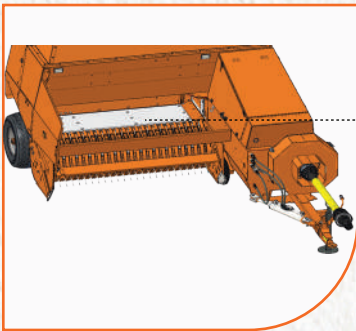
Hydro Accumulator

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NEXT GENERATION GREASELESS KNOTTER

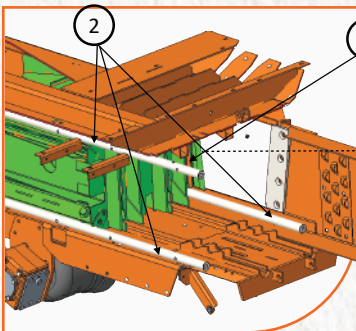
The NEXT GENERATION GREASELESS KNOTTER (Chromic Knotter) features a grease-less operation, which eliminates the need for lubrication, thereby reducing maintenance requirements and preventing messy buildup. Additionally, its loop knot design ensures secure and reliable knotting, contributing to improved overall performance and consistency in use.



MAIN HOUSING REPLACEABLE PLATE

Feeder housing bottom plate has SS material for better wear resistance and also it's easy to replaceable

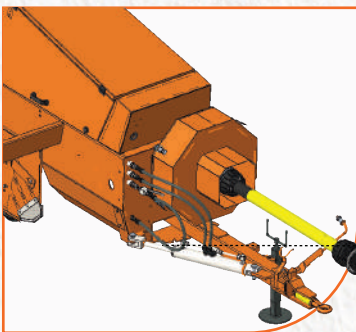
Replaceable Plate



PISTON GUIDE RAIL

- Piston works smoothly without any jolt, jerk and play with help of 6 special profile bearing and 3 guide rail round rods.
- To setting the piston (1) by means of guide rail (2) and grub screw (3) is very convenient and easy of servicing and also time saving.

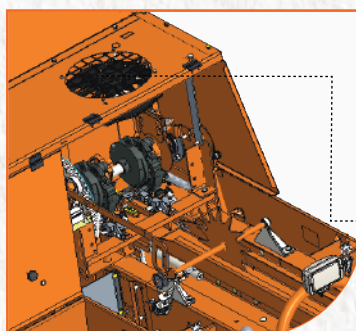
Guide Rail



HYDRAULIC SWING DRAWBAR

Hydraulic cylinder provided to change the angle of Drawbar, At the time of turning the machine

Swing Drawbar

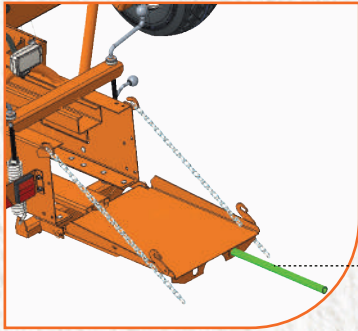


DUST REMOVAL FAN

- Fan provided for cleaning dust and foreign partials from knotter.
- For continuous run of knotter without breakdown

Dust Removal Fan

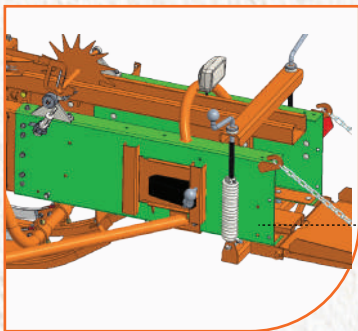
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BALE EXIT PIPE

For dropping bale left or right by using Pipe

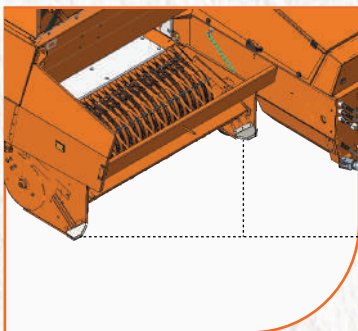
Bale Exit Pipe



BOLTED BALE EXIT

For easy of transport and service Bale exit was bolted with bale Chamber

Bolted Bale Exit



ADDITIONAL PICKUP SUPPORT

Pickup has additional chain lock arrangement for locking pickup at it's position if hydraulic system fail or pickup tyre breakdown

Pickup Support



ALUMINIUM PICK STRIPPER

- Aluminum Pick Stripper : No chance of rusting
- Pick Stripper has slot type arrangement for easy fitment



BALE SIZE

Width	:	49cm
Height	:	36m cm
Lenght	:	50-120cm

*Bale size depend on field condition/Moisture content

TECHNICAL SPECIFICATION

Sr. No.	Parameter	UNIT	Description
1	Hitching system	Type	Drawbar Hitch
2	Hyd. Connections	Type	Single Remote Hydraulic
3	Overall Dimensions (mm)	Length	5747 (with chute and field condition)
		Width	2732
		Height	1955
4	Transport tyres	Right	10/80-12 (10PR) (2 Bar)
		Left	11.5/80-15.3 (12 PR) (2 Bar)
8	Power Requirement	(kW/hp)	35/48 & Above
5	Tractor P.T.O. speed	RPM	540 rpm
6	Working Width	M	1.75
7	Pick up Height adjustment	Type	Mechanical and Hydraulic
8	Feeder	Inner	3 TINES
		Outer	3 TINES
9	Feeder Drive	Type	Shaft
10	Piston RPM	RPM	88
11	Bale Chamber (mm)	Width x Height	490 x 360
12	Bale length	MM	500 to 1200
13	Bale weight*	kg	12-35
14	Knotters	No.	2
15	Twine Box Capacity	Spool	14
16	Twine Recommended Type	Type	Polypropylene (PP), Sisal
17	Bale Length control	Type	Mechanical
	Bale Density control	Type	Manual
18	Hydraulic Oil	Lit.	Same as tractor hydraulic system
19	Gearbox oil	Grade	SAE-85W140
20	Safety device	Type	Safety Guards, Over running clutch PTO, safety Bolt
21	Weight of the machine	Kg	2230 kg (Approx.)
22	Pick-up	Pick-up width approx.	180 m
		Rake width	154 m
		Tine bars	5
		Tines per bar	25
		Tine spacing	64 mm
23	Tyres	Left	11.5/80 – 15.3 Impl. tyre
		Right	8.00 – 12 Impl. tyre
24	Track width	M	235 m



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