



# SB SERIES

SMALL SQUARE BALERS











# SB SERIES SMALL SQUARE BALERS

5 Models | 35–80 PTO HP Required

PRODUCE HIGH QUALITY BALES SEASON AFTER SEASON.

Case IH balers are known for producing top-quality bales while getting the crop out of the field efficiently and reliably. It all starts with rugged construction and high-capacity features like wide pickups, heavy-duty feeding systems and gear-driven knotters. Demand more performance and efficiency in your operation – demand the best with Case IH small square balers.

Leading the Industry.....	4–5
SB541C Balers.....	6–7
Case IH Twine Solutions.....	8
Hay Preservatives and Moisture Sensors.....	9
Case IH Livestock Solutions.....	10
Specifications.....	11

Model	SB521	SB531	SB541	SB541C	SB551
Bale Size	14×18 in. (356×1457 mm) 1-4.3 ft. (0.31–1.3 m) long				16×18 in. (406×457 mm) 1-4.3 ft. (0.31–1.3 m) long
Minimum Tractor Requirement	35 hp (26 kw)	62 hp (45 kw)	75 hp (56 kw)		80 hp (60 kw)

# HIGH-QUALITY, DEPENDABLE PERFORMANCE. EASY MAINTENANCE.

EXPECT A NON-STOP SUPPLY OF TIED-TO-LAST BALES, SEASON AFTER SEASON.

Crank out high-quality bales in all kinds of crops and crop conditions with the SB series small square balers. They are all about productivity. With five models, these balers get the job done right with high-capacity features like wide pickups and heavy-duty, smooth rotary feeding systems.

Producing top-quality hay is easy with the SB series. Designed with forage quality in mind, these balers utilize the entire crop you grow by harvesting more high-protein leaves for higher feed value. Specially-designed key features create bales that are of consistent size, shape and density.

■ An optional light kit (red tail lamps, amber flashing warning lamps, turn signals, and brake lamps) makes travel between fields easy and meets requirements for traveling on public roadways.

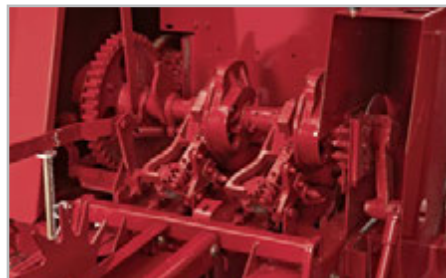
■ Density control is handled simply by adjusting tension applied to the bale chamber. Optional hydraulic density control system conveniently helps maintain uniform bale density and weight in varying crop conditions.



■ Pickup drive chain access shield gives easy entry to service points.

■ Feeding systems have a huge 283 sq. in. (1826 sq. cm) feed opening to easily handle large, uneven windrows. The SB521 feeder tines or the rotary system of the SB531 through SB551 gently and smoothly move crop into the bale chamber with minimal shatter loss for high-quality, high-protein bales.





■ **Knotters** are gear-driven and built to wear for durability, consistent tying and low maintenance.



■ **8-twine bale box** allows for longer baling duration without rethreading increasing productivity in the field.



■ **Bale thrower** option lets the wagon fill along with the baler. Smooth, reliable hydraulic drive throws the bale.



■ **Category VI heavy-duty driveline and clutches** provide outstanding durability and power for high-capacity baling

■ Make tight turns with less wear on driveline components. Our **exclusive Power-Pivot PTO** is standard on all models and reduces PTO chatter and driveline wrap when turning.

■ **PTO shielding** features hydraulic hose slots for convenience and protects hydraulic hose ends from collecting dirt and debris.

■ **Gearbox shielding** flips up to allow easy access to key service points on main drive chain and gearbox.

■ **Flip down side shield** give access to knotter service points.

## SB541C SMALL SQUARE BALER:

# HANDLE CHALLENGING BALING CONDITIONS, SEASON AFTER SEASON.

The SB541C small square baler provides professional grade performance for commercial operations, offering superior bale density and shape.



### ■ LARGER TWINE BOX

- Heavy duty 8-ball twine box
- Deeper and wider — 35% larger than the standard twine box featured on the SB541 balers

#### *Key Values*

- Larger twine balls improve efficiency by allowing operator to bale longer before needing to replace twine balls
- Utilize higher knot strength with tighter bales for fewer broken bales



### ■ LARGER WHEELS & TIRES

- The SB541C offers larger wheels and tires, the same wheels and tires offered on a SB551 small square baler.

- Left: 14L x 16.1
- Right: 11L x 14

#### *Key Values*

- Smoother ride
- Less soil compaction

### ■ HARDENED PLUNGER RAILS

- Longer life span



## ■ ENHANCED BALE CASE

- 12-in. longer than SB541 bale case
- 4.76 mm thicker walls compared to the 4 mm thick walls featured on the SB541

### *Key Values*

- Heavier bale case – good for rough crops
- Improved bale shape and length
- Increased strength and durability of bale case

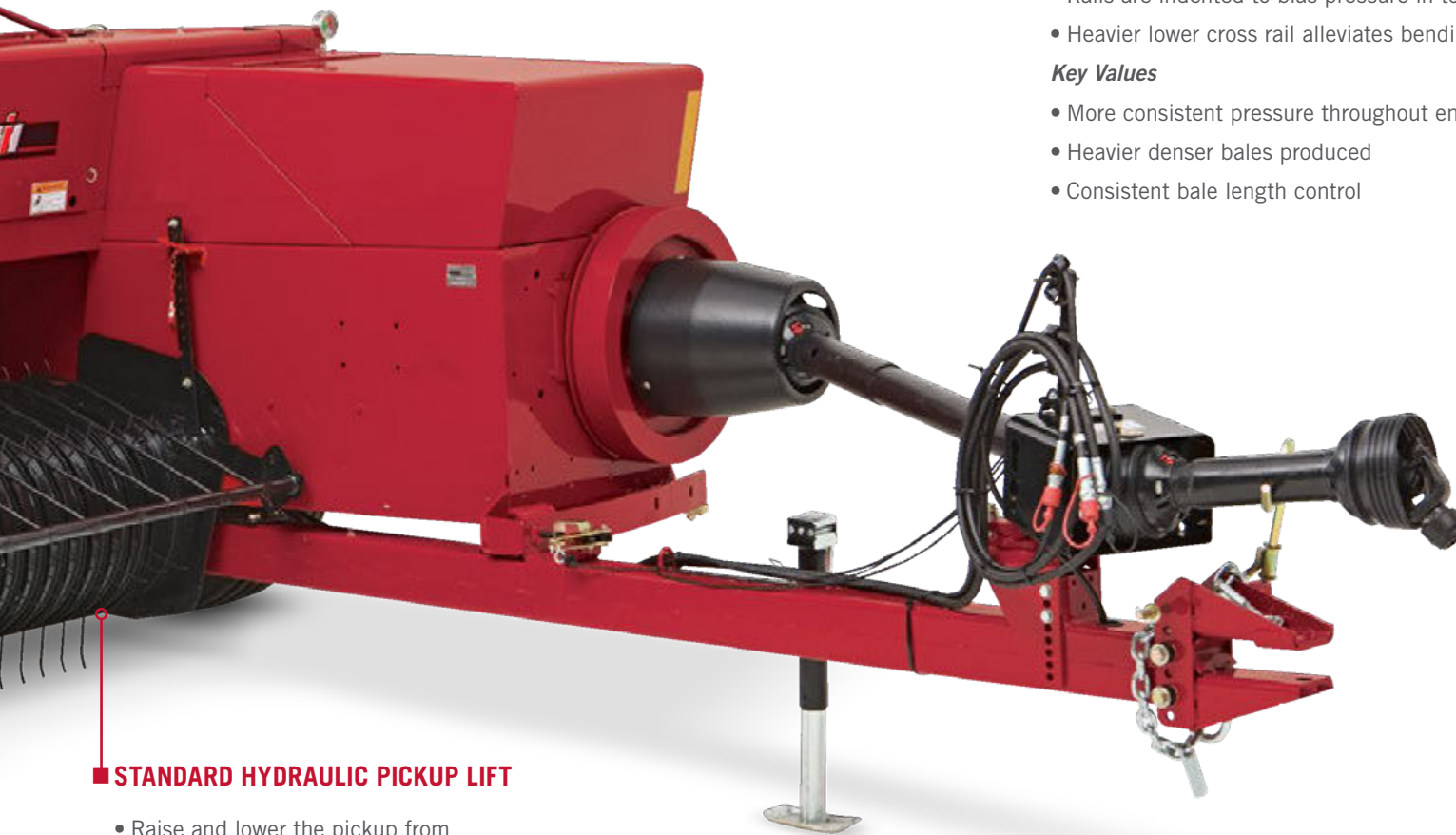


## ■ SIDE TENSION RAILS

- Hydraulically controlled side tension rails (hand adjusted density doors on SB541)
- Rails are indented to bias pressure in towards bale plunger forming area
- Heavier lower cross rail alleviates bending at max pressure

### *Key Values*

- More consistent pressure throughout entire bale formation
- Heavier denser bales produced
- Consistent bale length control



## ■ STANDARD HYDRAULIC PICKUP LIFT

- Raise and lower the pickup from the tractor seat







# FINALLY A FARMHAND THAT SAVES TIME AND LABOR IN THE FIELD.

Completely fill your wagons without picking up any bales by hand. The SBX11 bale thrower increases productivity in the field and reduces the labor required to put up your hay. The bale thrower easily handles bales up to 38 in. long and 65 pounds. The SBX11 is powered by hydraulics driven by the tractor PTO. This allows lower horsepower tractors with limited hydraulic capacity to be used on the baler without sacrificing thrower performance. The SBX11 is compatible with SB521, SB531 and SB541 balers. Due to the extended bale case the SBX11 Bale thrower is NOT compatible with model SB541C balers.

## CONTROLS FOR SPEED AND DISTANCE

Know at a glance how far bales are being launched. A distance indicator, visible from the tractor seat, shows the distance that bales are thrown relative to belt speed, (1 is slowest; 6 the fastest). A tractor-mounted distance control toggle switch makes it easy to change the throwing speed to alter distance. Direction of the thrower may be adjusted up to 30 degrees to the right or left.

MODEL	SBX11
Compatible Bale Size	14 × 18 in. (36 × 46 cm)
Maximum Bale Length	38 in. (96.5 cm)
Maximum Bale Weight	80 lb. (36.3 kg); 65 lb. (29.5 kg) recommend max. weight with 18-ft. wagon
Baler Compatibility	SB521, SB531, SB541 twine-tie balers
Apron Belt (2)	12 in. (30.5 cm) wide, 2-ply, diamond tread
Belt Speed (max)	2570 ft./min. (783 m/min.)
Belt Drive	Hydraulic pump driven by baler flywheel
Directional Movement	30 degrees right to left; Hydraulic cylinder

DIMENSIONS	
Weight (Approximate with Wagon Hitch)	655 lb. (297 kg)
Height (From Top of Bale Case)	31.5 in (79.9 cm)
Length (Approximate From End of Bale Case)	58.1 in (147.6 cm)





# CUSTOMIZE YOUR BALER TO MEET YOUR OPERATION.

Haying windows are short and critical. You need to cut your hay when the weather is good, put up the highest-quality hay possible and use the best equipment to do both. Customize your baler with kits that can make you more productive and save you time and money.



## BALE CHUTE

The quarter-turn bale chute drops bales on their side for pickup with an automatic bale wagon. This position also keeps the twine off the ground preventing deterioration from moisture.



## HYDRAFORMATIC BALE TENSION KIT

A hydraformatic bale tension kit can be added to SB531 and SB541 balers (standard on SB541C). This kit provides hydraulically controlled bale tension for consistent bale shape and uniform density in varying crop conditions.



## BALE CASE EXTENSION KIT

A bale case extension kit can be conveniently added to SB531 and SB541 models. The bale case is already lengthened on the SB541C. This additional length maintains control of the bale longer for outstanding and consistent bale shape and density regardless of crop conditions. Recommended when using the quarter-turn bale chute



## OTHER POPULAR KITS

- **Hay preservative kits.** *(see page 13)*
- **Hydraulic pickup lift:**
  - Raise and lower the pickup from the tractor seat using the tractor's hydraulic controls
- **Triple-purpose bale chute:**
  - Can be used to drop bales on the ground (flatside down). Unbolt the left portion of the pan to drop bales on their side. Use with the wagon hitch and chute kit to load wagons.
- **Hydraulic tongue swing:**
  - Uses tractor hydraulics to conveniently swing the baler into transport or working position



# HAY MOISTURE TESTERS.

Whether you are baling for yourself or selling hay, you need to know the moisture content to ensure optimum quality. Storing hay with too high moisture content can lead to molding and potential heating concerns. Case IH offers several options to test hay moisture whether in the windrow before baling, baler-mounted to test while baling or simply testing the finished bale.



## BALER-MOUNTED TESTERS

### ■ BHT-2 tester:

- Multi-sensor technology for greater accuracy
- Average of readings updated and displayed every 3 seconds
- Moisture range 8%-30%
- Large, illuminated display and keypad for easy viewing in day or night
- Part No. 73340410

### ■ BHT-1 tester:

- Average of readings updated and displayed every 3 seconds
- Moisture range 8%-40%
- Large, illuminated display and keypad for easy viewing in day or night
- Part No. B505454

## PORTABLE HAY MOISTURE TESTERS

### ■ HT-Pro tester:

- 10" or 20" to use with varying bale types
- Backlit display for low-light use
- Moisture range 8%–44% depending on hay tested
- Easy calibration <20 seconds needed
- With 10" probe Part No. 73341675
- With 20" probe Part No. 87298950

### ■ DHT-1 tester:

- Direct readout of moisture and temperature
- Sturdy pistol-grip handle
- Replaceable probe made of extra-rugged aircraft aluminum
- Moisture range 14.4%–44%
- Large, illuminated display and keypad for easy viewing in day or night
- With 18" Probe Part No. B500818
- With 24" Probe Part No. B505229
- With 32" Probe Part No. B505228

### ■ WINDROW™ tester:

- Quickly measures loose hay from the windrow before committing to baling
- Simply add loose hay to a 5-gallon bucket and press tester into the hay
- Test results in 30-60 seconds
- Moisture range 13%-70%
- Part No. 87299900



# CASE IH TWINE SOLUTIONS.

Case IH branded twine continues to be the hay and forage industry's standard for quality. Uniform diameter, consistent strength and exact ball length guarantees you will have tight bales without the worry of failure. Twine is available in a wide variety of knot strengths and lengths for various baler configurations and crops.



## CASE IH PLASTIC TWINE

- Tight bales that are consistent in size
- Uniform diameter and strength to perform in harsh applications
- Guaranteed knot and tensile strengths
- Non-toxic to animals
- UV stabilized to withstand extreme sunlight
- Multiple colors to tailor identify your hay
- Will not rot

### SMALL SQUARE BALER TWINE\*

FT. PER BOX	KNOT STRENGTH	END OF USE APPLICATION
9,000	130 lb.	30–60 lb. square bales
7,200	170 lb.	60–100 lb. square bales
7,200	190 lb.	60–100 lb. square bales

\* Most popular sizes are shown above. Many other sizes are available.

## BALEKEEPER™ PLASTIC TWINE

BaleKeeper branded plastic twine is made in the USA and can be depended upon to meet your baling needs and expectations. While sharing many of the same performance characteristics of the Case IH branded twine, BaleKeeper is designed with the “value” conscious farmer or operator in mind. The labeled knot or tensile strength is an average breaking tension. BaleKeeper is available in the most popular knot/tensile strengths and lengths.

## SISAL TWINE

Bale with natural fiber twine, the 100% biodegradable twine that helps keep your fields healthy. Sisal baler twine is made from natural fibers that over time, break down completely and put no toxic material into the soil.

- Uniform thickness
- Entirely biodegradable
- Mildew resistant
- Consistent tensile/knot strength
- Only the best Brazilian fibers used
- Available in natural or green colors

### SQUARE BALER TWINE

FT. PER BOX	KNOT STRENGTH	GROSS WEIGHT	END OF USE APPLICATION
7,200	160 lb.	38 lb.	Square bales
9,000	130 lb.	38 lb.	Square bales
10,000	115 lb.	38 lb.	Square bales



# BETTER BALES WITH BETTER APPLICATION EQUIPMENT.

Serious hay producers like you require greener hay with high feed value. The right application system makes a difference. Our automatic applicator moisture sensors accurately “read” moisture percentages in real time, adjusting every three seconds to match hay conditions. The sensors take the guesswork out of the application process, keeping your crops – large or small – in great condition without wasting product.



## HAY PRESERVATIVE

ThirtyPlus™ Hay Preservative enables hay to be baled at moistures up to 30% with small square balers. Get out in the fields early, even on cloudy days, and work later in the evenings when dew is heavier. Also, the non-corrosive formula will not harm your equipment, operator or livestock.

### PRESERVATIVE PART NUMBERS\*†

PART NO.	DESCRIPTION
C0903	15-gal. Drum of ThirtyPlus™ (120 lb.)
C0904	50-gal. Drum of ThirtyPlus (450 lb.)
C0904PQ	Pallet of 50-gal. Drums of ThirtyPlus (4 / pallet)
C0908	200-gal. Tote of ThirtyPlus (1,800 lb.) U.S. only
C0909	270-gal. Tote of ThirtyPlus (2,380 lb.)

\* Note: In Canada, please add a “C” suffix on all part numbers.  
† ThirtyPlus Hay Preservative not available in California.

## MOISTURE SENSORS

Automatic moisture sensors measure moisture when the hay bale makes contact. Sensing all the way through the bale gives a moisture reading that is accurate to within +/- one point.

Sensors for the Automatic System on small square balers consist of two star wheels that mount on the bottom of the bale chute. Reads moisture from 8% to 32% on 300 and 600-Series Systems.

### APPLICATOR PART NUMBERS

PART NO.	DESCRIPTION
C6514415B	600-Series Automatic Applicator for SBX530, 540, 550, SB531, 541, 551
C6504485B	600-Series Automatic Applicator for 8500-Series
C3454415C	300-Series Automatic Applicator (25-gal.) for SBX530, 540, 550, SB531, 541, 551
C3514415C	300-Series Automatic Applicator (55-gal.) for SBX530, 540, 550, SB531, 541, 551
C3454409C	300-Series Automatic Applicator for SBX520, SB521
C3504485C	300-Series Automatic Applicator for 8500-Series
C4414415	Electronic Applicator (25-gal.) for SBX530, 540, 550, SB531, 541, 551
C4404415	Electronic Applicator (55-gal.) for SBX530, 540, 550, SB531, 541, 551
C4414409	Electronic Applicator for SBX520, SB521
C4484485	Electronic Applicator for 8500-Series

\* For more information see your local Case IH dealer or visit [partstore.caseih.com](http://partstore.caseih.com)

# CASE IH LIVESTOCK SOLUTIONS.

From fieldwork to chores around the farmyard, you can depend on the entire lineup of tractors and hay and forage tools from Case IH.



## ■ Take farm chores to the next level: Farmall® series tractors with a range of loaders and attachments:

- Iconic **Farmall tractors** (30 to 140 engine hp) are the farm workhorses with customizable options from economy to deluxe.
- **Heavy-duty loaders** are designed for Case IH tractors so you can easily switch between **attachments** for the task at hand.

## ■ Match performance in the field: Maxxum® series tractors with Case IH mowers, conditioners and wheel rakes:

- **Maxxum tractors** (116 to 145 engine hp) deliver premium features of a high horsepower tractor in a utility package. Choose from three transmission levels

for maximum productivity – from fieldwork to chores around the farm.

- Fast, clean cutting **mowers** and high-quality **conditioners** help you get more from your hayfields.
- Featuring quick simple adjustments and heavy-duty construction, **WR series wheel rakes** are built to help you move high capacities of hay.

## ■ Cut and bale high-quality hay: Puma® series tractors with WD4 series windrowers and RB5 series round balers:

- **Puma tractors** (150 to 240 engine hp) offer big iron power, performance and comfort in mid-range tractors.

- **WD4 series windrowers** with diverse header options help you cover more acres with speed and comfort.
- **RB5 series round baler** consistently build dense round bales from 400 to 2,200 pounds.

## ■ Make quick work out of big acreage: Optum® series tractors with square balers:

- **Optum series tractors** (217 to 300 hp) deliver the muscle for both row-crop applications and hay and forage operations.
- **Rugged SB1 series small square balers** and **LB4 large square balers** produce dense, uniform bales — season after season.

**Work with your local Case IH dealer to build the lineup that is right for your operation.**



MODEL	SB521	SB531	SB541	SB541C	SB551
BALE SIZE					
Cross Section	14 × 18 in. (356 × 457 mm)				16 × 18 in. (406 × 457 mm)
Length	12 to 52 in. (305 to 1 321 mm)				
Density Control (Standard / Optional)	Adj. spring loaded tension rails / N/A	Adj. spring loaded tension rails / Hydraulic density adj.		Hydraulic density adj. / N/A	
PICKUP					
Width Inside	65 in. (1 651 mm)		75 in. (1 905 mm)		
Width on Flare	70 in. (1 778 mm)		80 in. (2 032 mm)		
Number of Teeth	88, four tooth bars	110, five tooth bars		156, six tooth bars	
Protection	V-belt to chain, with “lost-motion” reel drive			V-belt slippage, with “lost motion” reel drive	V-belt to chain, with “lost-motion” reel drive
FEEDER					
Type	Flow type feeder – 6 tines	Rotary feeder with packer			
Opening	283 sq. in. (0.182 m²)			284 sq. in. (0.183 m²)	318 sq. in. (0.205 m²)
PLUNGER					
Speed	79 spm	93 spm			
Stroke Length	30 in. (762 mm)				
TYING MECHANISM					
Type	Twine knotter		Knotter or twister	HD knotter	Knotter
Drive Mechanism	Gear and shaft				
Protection	Shear bolt				
Capacity (Twine/Wire)	4 balls / N/A	6 balls / N/A	8 balls / 4 coils	8 balls / N/A	
MAIN DRIVE					
Flywheel Diameter	22 in. (559 mm)				
Flywheel Weight	248 lb. (112 kg)				357 lb. (162 kg)
PTO Driveline	Std: 3 joint, category 4, with Power-Pivot bearing	Std: 3 joint, category 6, with Power-Pivot bearing			
Protection	Shear bolt, overrunning and slip clutches				
Gearbox	Heat treated, steel alloy hypoid gears run in oil				
TIRES					
Left / Right	27 × 9.50 -15, 6PR / 25 × 7.50 -15, 6PR	31 × 13.50 - 15, 6PR / 27 × 9.50 - 15, 6PR		14L × 16.1 , 6PR / 11 × 14, 6PR	
WEIGHT					
Twine Tie	3,085 lb. (1 399 kg)	3,400 lb. (1 542 kg)	3,715 lb. (1 685 kg)	3,940 lb. (1 787 kg)	4,200 lb. (1 905 kg)
Wire Tie	N/A		3,851 lb. (1 747 kg)	N/A	
TRACTOR REQUIREMENTS					
Minimum PTO HP	35 hp (26 kW)	62 hp (46.2 kW)	75 hp (55.9 kW)		80 hp (59.6 kW)

SAFETY NEVER HURTS!™ Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs, and use any safety features provided. CNH Industrial America LLC reserves the right to make improvements in design and changes in specifications at any time without notice and without incurring any obligation to install them on units previously sold. Specifications, descriptions and illustrative material herein are as accurate as known at time of publication, but are subject to change without notice. Availability of some models and equipment builds varies according to the country in which the equipment is used.

©2018 CNH Industrial America LLC. All rights reserved. Case IH is a trademark registered in the United States and many other countries, owned by or licensed to CNH Industrial N.V., its subsidiaries or affiliates. Any trademarks referred to herein, in association with goods and/or services of companies other than CNH Industrial America LLC, are the property of those respective companies. Printed in U.S.A. [www.caseih.com](http://www.caseih.com) CIH18062701



**CASE IH**  
AGRICULTURE