



**NEW IDEA**

BUILT FOR THE BOTTOM LINE

# Large **Rectangular Baler**



**7333**

## DIMENSIONS AND WEIGHTS

<b>Length</b>	
Without Bale Chute IN (mm) .....	286 (7265)
With Standard Bale Chute IN (mm) .....	355 (9009)
<b>With Roller Bale Chute</b>	
Operating Position, Maximum IN (mm) .....	357 (9070)
Storage and Road Position IN (mm) .....	297 (7544)
<b>Height</b>	
Top of Knottter Shielding IN (mm) .....	107.5 (2731)
Top of Hand Railing IN (mm) .....	124.5 (3162)
<b>Width (Overall)</b>	
Shipping (Less Tires) IN (mm) .....	89.4 (2270)
Operating IN (mm) .....	100 (2540)
<b>Weight (Approx.)</b>	
Baler LB (kg) .....	12,900 (5851)
Baler with Bale Ejector and Roller Bale Chute LB (kg) .....	13,425 (6090)
Tongue (Empty) LB (kg) .....	2050 (930)

## BALE CHAMBER

Width IN (mm) .....	31.5 (800)
Height IN (mm) .....	34.4 (875)
Bale Length (Adjustable) IN (mm) .....	Up to 98.4 (2500)

## TIRES

Baler .....	21.5L x 16.1, 14 ply
Baler (Optional) .....	600 x 50 x 22.5, 12 ply
Pickup Gauge Wheel .....	4.00 x 16 (2) Pneumatic w/Inner Tube

## MAIN DRIVE

PTO Speed rpm .....	1000
PTO Type .....	ASAE Type 2, 1 3/8 IN, 21 Teeth (Optional) .....
Drive Line Category .....	ASAE Type 3, 1 3/4 IN, 20 Teeth
Drive Line Protection .....	ISO 8 (ASAE 6) Overrunning, Slip Clutches, and Shear Bolt
Flywheel Brake .....	Direct Acting
Flywheel Diameter IN (mm) .....	29.5 (750)
Flywheel Width IN (mm) .....	4.3 (110)
Flywheel Weight LB (kg) .....	360 (163)
Gearbox .....	Enclosed Double Reduction
Gears .....	Spiral Bevel (1 <sup>st</sup> set) Spur (2 <sup>nd</sup> set)
Bearings .....	Tapered Roller and Spherical
Lubrication .....	Oil Bath
Temperature Switch Setting °F (°C) .....	172° to 190° (78° to 88°)

## PICKUP ASSEMBLY

Outside Width IN (mm) .....	91.2 (2316)
Effective Width IN (mm) .....	77.5 (1968)
Width, Tine to Tine IN (mm) .....	70.2 (1782)
Overall Width w/Gauge Wheels IN (mm) .....	107.4 (2729)
Pickup Tinebar Drive .....	Cam and Drive Arms on Right and Left
Number of Bars .....	4- w/Center Carrier
Number of Tines .....	112
Tine Spacing IN (mm) .....	2.6 (66)
Tine Bar Bearings .....	Sealed Ball
Drive .....	RC50 and RC60 Roller Chain
Protection .....	Slip and Overrunning Clutches
Height control .....	2-Fixed Gauge Wheels and Adjustable Control Arm
Pickup Lift .....	Hydraulic Cylinder

## BALE CHAMBER FEEDING SYSTEM

Packers .....	Fork Type w/6 Hard Surfaced Tines
Crank .....	Heavy Duty
Drive .....	RC80 roller chain
Protection .....	Splined Slip Clutch
Charge Chamber Volume ft <sup>3</sup> (m <sup>3</sup> ) .....	9.98 (0.282)
Window Size Compensation .....	Automatic Charge (Sensor Engages Stuffer Clutch)
Stuffer .....	Fork Type
Drive .....	RC80 Roller Chain
Drive Protection .....	Shear Bolt

## PLUNGER

Speed strokes/min .....	40.97
Length of stroke IN (mm) .....	27.95 (710)
Mounting .....	4 Tapered Roller Bearings (Sealed) .....
	2 Ball Bearing Rollers (Sealed)

## CONTROL AND MONITORING SYSTEM

Type .....	Microprocessor Based Electronic Control
<b>Baler Controls</b>	
Plunger Load to Control Bale Density, Alarm Volume, Displays and Reset Field Bale Count, Manual Hydraulic Pressure Control.	
<b>Baler Functions Monitored</b>	
Plunger Load, Bale Chamber Tension Pressure, Bale Count - Field (2) and Total, Flakes / Bale, Driving Meter, Stuffer Cycles, Knottter and Needle Performance, Feeder Performance, Stuffer Shear Bolt, Gearbox Overheating, Low Voltage, Automatic Electronic System Performance Checks	

## Non-Volatile Memory Storage

<b>Load, Display and Control Modes, Bale Counts</b>	
Display .....	Dual LCD with Back Lighting
Control Switches .....	Hermetically Sealed Membrane (12) with Back Lighting
On-Off Functions .....	Both Automatic and Manual
<b>Electrical Protections</b>	
Under and Over Voltage, Output Overload (Short Circuits, etc), Breaker Switch, Static Discharge, etc	
Baler Switches .....	Hermetically Sealed Reed (3)
<b>Console Size</b>	
Width IN (mm) .....	13.8 (350)
Depth IN (mm) .....	5.2 (132)
Height IN (mm) .....	5.3 (135)
Electrical Requirements .....	12V DC

## TYING MECHANISM

Knottters .....	4 Double Knot Type
Spacing IN (mm) .....	6.8 (172)
Type Tie .....	Twine Only
Twine Storage Capacity .....	20 Balls
Type Twine .....	High Quality Split Film Polypropylene or Sisal
Minimum Knot Strength LB (N) .....	300 (1330)

## BALE CHAMBER TENSION SYSTEM

Type .....	Electronic Controlled Hydraulics
Valve .....	Solenoid Poppet Type
System supply .....	Tractor Hydraulics
Standard .....	Closed Center
Optional .....	Open Center

## LIGHTS

Working .....	3
Service .....	3
Safety .....	Flashing and Turn Signal, Tail Light
Power and Control .....	Tractor 12V by Using ASAE 7 Pin Connector

## CENTRALIZED LUBRICATION SYSTEM

Automatic Centralized Lubrication System, Main Baler	
Timed Electrical Pump, Positive Displacement Grease Divider Valves/Lubes 16 Pts	
Manual Centralized Lubrication System, Knottters	
Three Positive Displacement Manual Oil Pumps .....	
	Lubes 34 Pts

## BALE ROLLER CHUTE (OPTIONAL)

<b>Length (2 Position Adjustable)</b>	
Maximum Overall IN (mm) .....	78.4 (1990)
Minimum Overall IN (mm) .....	65.6 (1640)
Maximum Effective IN (mm) .....	72.8 (1850)
Minimum Effective IN (mm) .....	51.1 (1500)
Number of Rollers .....	5
Roller Diameter IN (mm) .....	5 (122)
Type of Lift .....	Hydraulic Power Lift with Ejector
Bounce Control Brass Friction Discs (2) Diameter IN (mm) .....	3 (75)

## BALE EJECTOR

Number of Teeth .....	10
Slide Type .....	Ball Bearing Rollers
Power .....	Hydraulic Cylinder
Cylinder Size IN (mm) .....	2.5 (64)
Valve .....	Mounted on Baler Control Valve
Control .....	Standard with Electronic Baler Control Console
Operation .....	Switch at Rear of Left Twine Box
Stroke IN (mm) .....	20 (508)
Number of Teeth Engaged .....	Operator Selected, Dual Handle Control
Amount of Hay Ejected (Operator Selected) IN (mm) .....	18 (457) To Full Bale Chamber

## TRACTOR REQUIREMENTS

<b>Horsepower</b>	
Minimum hp (kW) .....	90 (67)
PTO speed rpm (r/min) .....	1000
PTO .....	ASAE Type 2, 1-3/8 IN 21 Teeth
	Or PTO ASAE Type 3, 1-3/4 IN 20 Teeth
<b>Hydraulics</b>	
Two Double Acting Remote Valves	
Pickup Lift and Bale Chamber Tension Control	
<b>Type of Hydraulic System</b>	
Standard .....	Closed Center
Optional Conversion .....	Open Center
Electrical system .....	12V DC
Lights .....	ASAE 7-pin Connector Outlet

## LUBRICATION

<b>Gearbox</b>	
Quantity QT ( L ) .....	10 (9.5)
Lubrication .....	SAE 80W 140 or SAE 85W 140, API GL-5
<b>Hydraulic System</b>	
System Supply .....	Tractor Hydraulics
Centralized Lubrication System for Knottter	
Quantity (Approximately) GAL ( L ) .....	2.0 (7.6)
Lubrication .....	SAE 80W 140 or SAE 85W 140, API GL-5