LBX322, LBX332, LBX422, LBX432

Repair Manual

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REPAIR MANUAL



LBX322 P , LBX322 R , LBX322 S , LBX332 P , LBX332 R , LBX332 S , LBX422 R , LBX422 S , LBX432 R , LBX432 S

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Foreword

How to use this manual

The information in this manual has been structured using the Integrated Coding Environment (ICE). Ice is the new way in which technical information is created, stored and retrieved in the new Technical Information Database.

ICE coding classifies each repair operation three ways

- 1. Location: the function or component on the machine to which the information is related e.g. Hydraulic pump
- 2. Information type: the type of information describing the repair operation e.g. Remove
- 3. Product: The machine that the repair operation is created for e.g. Big Balers

Section contents

Your manual is first divided in sections. Sections are classified according to the main functions of the product. Each Section has a Contents page listed in numerical order and Index page listed in Alphabetical order.

Big Baler Section Contents

- DISTRIBUTION SYSTEMS
 (A) that interact with most of the functions of the product. it contains the central parts of the hydraulic, electrical, electronic, pneumatic and lubrication systems.
- POWER PRODUCTION
 (B) all of the functions related to the production of power to operate the vehicle PTO drive line and related parts.
- POWER TRAIN
 (C) all of the functions related to the transfer of power to operate the vehicle though a gearbox.
- TRAVELLING
 (D) this encompasses all parts related to the parts when the vehicle moves across ground, wheels, axles and brakes.
- BODY AND STRUCTURE
 (E) and protective shields
- CROP PROCESSING
 (K) encompasses all parts related to crop handling from pick up to bale ejecting.

Chapter contents

The Section is then divided in Chapters. Chapters are classified according to the specific function of the systems and components. Each Chapter has a contents page listed in numerical order and index page listed in alphabetical order.

An example of a Chapter and Contents, is the component e.g. LUBRICATION SYSTEM Greasing, where the system is sub divided and described through

- 1. TECHNICAL DATA, information describing specifications or characteristics of any function or system of the machine.
- 2. FUNCTIONAL DATA, information describing design and functional behavior of any function or system (How it works)
- 3. SERVICE, information describing the maintenance and repair of the machine.
- 4. DIAGNOSTIC, information related to systems, troubleshooting and errors.

An example of the ICE Coding reference could look like:

Pump - Overhaul (A.60.B)

- A = SECTION
- 60 = CHAPTER
- B.20 = COMPONENT
- F = SERVICE

- 10 = BASIC
- A.40 = OVERHAUL

Page reference

Printed references found at the base of each page then equate to

- Publication number
- Revision date of the publication
- Publication date
- Chapter reference
- Page reference

Safety rules

WARNING AND DANGER SYMBOLS

Warning symbols point out important personal safety messages. Carefully read the following safety regulations and observe advised precautions in order to avoid potential hazards and safeguard your health and safety. In this manual the symbol is accompanied by the following key words:

WARNING: concerning unsuitable repair operations that may jeopardise the safety of Repair personnel.

DANGER: Specific warnings concerning potential hazards for operator safety of for other persons directly or indirectly involved.

ACCIDENT PREVENTION

Most accidents or injuries that occur in workshops are the result of non-observance of simple and fundamental safety regulations. For this reason,

IN MOST CASES THESE ACCIDENTS CAN BE AVOIDED by foreseeing possible causes and consequently acting with the necessary caution and care. Accidents may occur with all types of machines, regardless of how well the machine in question was designed and built. A careful and judicious service technician is the best guarantee against accidents. Precise observance of the most basic safety rules is normally sufficient to avoid many serious accidents.

DANGER Never carry out any cleaning, lubrication or maintenance operations when the tractor engine is running. ACCIDENT PREVENTION Most accidents or injuries that occur in workshops are the result of non-observance of simple and fundamental safety regulations.

SAFETY RULES General guidelines

Carefully follow specified repair and maintenance procedures.

Do not wear rings, wristwatches, jewellery, unbuttoned or loose articles of clothing such as: ties, torn clothing, scarves, open jackets or shirts with open zips that may remain entangled in moving parts. It is advised to wear approved safety clothing, e.g.: non-slip footwear; gloves, safety goggles, helmets, etc.

Do not carry out repair operations with someone sitting in the drivers seat, unless the person is a trained technician who is assisting with the operation in question.

Do not operate the machine or use any of the implements from different positions, other than the drivers seat.

Do not carry out operations on the machine with the tractor engine running, unless specially indicated.

Stop the tractor engine and check that the hydraulic circuits are pressure-free before removing caps, covers, valves, etc.

All repair and maintenance operations must be carried out using extreme care and attention.

Service steps and platforms used in the workshop or elsewhere should be built according to standard accident prevention regulations.

Disconnect the p.t.o. from the tractor and label all controls to indicate that the machine is being serviced. Any parts that are to be raised must be locked in position.

Brakes are inoperative when manually released for repair or maintenance purposes. Use blocks or similar devices to control the machine in these conditions.

Only use specified towing points for towing the machine. Connect parts carefully. Make sure that all pins and / or locks are secured in position before applying traction. Never remain near the towing bars, cables or chains that are operating under load.

When loading or unloading the machine from the trailer (or other means of transportation), select a flat area capable of sustaining the trailer or truck wheels. Firmly secure the machine to the truck or trailer and lock the wheels in the position by the carrier.

Electric heaters, battery-chargers and similar equipment must only be powered by auxiliary power supplies with efficient ground insulation to avoid electrical shock hazards.

Always use suitable hoisting or lifting devices when raising or moving heavy parts. w Take extra care if bystanders are present.

Never use gasoline, diesel oil or other inflammable liquids as cleaning agents. Use non-inflammable, non toxic commercially available solvents.

Wear safety goggles with side guards when cleaning parts with compressed air.

Reduce the air pressure according to the local regulations in force.

Do not run the tractor engine in confined spaces without suitable ventilation.

Never use naked flames for lighting when working on the machine or checking for leaks.

All movements must be carried out carefully when working under, on or near the machine. Wear protective equipment: helmets, goggles and special footwear.

When carrying out checks with the tractor engine running, request the assistance of an operator in the driver's seat. The operator must maintain visual contact with the service technician at all times.

If operating outside the workshop, position the machine on a flat surface and lock in position. If working on a slope, lock the machine in position. Move to a flat area as soon as is safely possible.

Damaged or bent chains or cables are unreliable. Do not use them for lifting or towing. Always use suitable protective gloves when handling chains or cables.

Chains should always be safely secured. Make sure that the hitch-up point is capable of sustaining the load in ques-

tion. Keep the area near the hitch-up point, chains or cables free of all bystanders.

Maintenance and repair operations must be carried out in a CLEAN and DRY area. Eliminate any water or oil spillage immediately.

Do not create piles of oil or grease-soaked rags as they represent a serious fire hazard. Always store rags in a closed metal container. Before engaging the machine, make sure that there are no persons within the machine or implement range of action.

Empty your pockets of all objects that may fall accidentally unobserved into the machine inner compartments.

In the presence of protruding metal parts, use protective goggles or goggles with side guards, helmets, special footwear and gloves.

When welding, use protective safety devices: tinted safety goggles, helmets, special overalls, gloves and footwear. All persons present in the area where welding is taking place must wear tinted goggles.

NEVER LOOK DIRECTLY AT THE WELDING ARC WITHOUT SUITABLE EYE PROTECTION.

Metal cables tend to fray with repeated use. Always use suitable protective devices (gloves, goggles, etc.) when handling cables.

Handle all parts carefully. Do not put your hands or fingers between moving parts. Wear suitable safety clothing safety goggles, gloves and shoes.

Never run the tractor engine in confined spaces that are not equipped with adequate ventilation for exhaust gas extraction

Never place the head, body, limbs, feet, hands or fingers near rotating and moving parts. HYDRAULIC SYSTEMS A liquid leaking from a tiny hole may be almost invisible but, at the same time, be powerful enough to penetrate the skin. Therefore NEVER USE HANDS TO CHECK FOR LEAKS but use a piece of cardboard or wood for this purpose. If any liquid penetrates skin tissue, call for medical aid immediately. Failure to treat this condition with correct medical procedure may result in serious infection or dermatosis.

In order to check the pressure in the system use suitable instruments.

WHEELS AND TYRES Make sure that the tyres are correctly inflated at the pressure specified by the manufacturer. Periodically check the rims and tyres for damage.

Stand away from (at the side of) the tyre when checking inflation pressure.

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Do not use parts of recovered wheels as incorrect welding brazing or heating may weaken and eventually cause damage to the wheel.

Never cut or weld a rim mounted with an inflated tyre.

To remove the wheels, lock all wheels. After having raised the machine, position supports underneath, according to regulations in force.

Deflate the tyre before removing any objects that may be jammed in the tyre tread.

Never inflate tyres using inflammable gasses, as this may result in explosions and injury to bystanders.

REMOVAL AND RE-FITTING Lift and handle all heavy parts using suitable hoisting equipment. Make sure that parts are sustained by appropriate hooks and slings. Use the hoisting eyebolts for lifting operations. Extra care should be taken if persons are present near the load to be lifted.

Handle all parts carefully. Do not put your hands or fingers between parts. Wear suitable safety clothing - safety goggles and shoes.

Avoid twisting chains or metal cables. Always wear safety gloves when handling cables or chains.

WARNING

PTO driven machinery can cause serious injury. Before working on or near the PTO shaft, or servicing or clearing the driven machine, put the PTO switch in the DISENGAGE position and STOP the engine. R154B

A WARNING Whenever dismounting from a vehicle stop all power sources, lower equipment to the ground, shut off engine, use park brake or lock, and remove key. M288A

IMPORTANT INFORMATION

All repair and maintenance works listed in this manual must be carried out only by staff belonging to the service network, strictly complying with the instructions given and using, whenever required, the special tools. Anyone who carries out the above operations without complying with the prescriptions shall be responsible for the subsequent damages.

The manufacturer and all the organizations of its distribution chain, including - without limitation - national, regional or local dealers, reject any responsibility for damage due to anomalous behaviour of parts and / or components not approved by the manufacturer himself, including those used for servicing or repair of the product manufacturers or marketed by the Manufacturer. In any case, no warranty is given or attributed on the product manufacturers of marketed by the Manufacturer in case of damages due to an anomalous behaviour of parts and / or components not

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approved by the Manufacturer. No reproduction, though partial of text and illustrations allowed GENERAL INSTRUCTIONS

SHIMMING For each adjustment operation, select adjusting shims and measure individually using a micrometer, then add up the recorded values. Do not rely on measuring the entire shimming set, which may be incorrect, or the rated value indicated for on each shim.

ROTATING SHAFT SEALS For rotating shaft seal installation, proceed as follows: - Before assembly, allow the seal to soak in the oil for at least thirty minutes - Thoroughly clean the shaft and check that the working surface on the shaft is not damaged - Position the sealing lip facing the fluid; with hydrodynamic lips, take into consideration the shaft rotation direction and position the grooves so that they will deviate the fluid towards the inner side of the seal - Coat the sealing lip with a thin layer of lubricant (use oil rather than grease) and fill the gap between the sealing lip and the dust lip on double lip seals with grease - Insert the seal in its seat and press down using a flat punch, do not tap the seal with a hammer or a mallet - Whilst inserting the seal, check that it is perpendicular to the seat; once settled, make sure that it makes contact with the thrust element, if required - To prevent damaging the seal lip on the shaft, position a protective guard during installation operations.

O - RING SEALS Lubricate the O-RING seals before inserting them in the seats, this will prevent them from overturning and twisting, which would jeopardise sealing efficiency.

SEALING COMPOUNDS Apply one of the following sealing compounds on the mating surfaces marked with an X: RTV SILMATE, RHODORSIL CAF 1 or LOCTITE PLASTIC GASKET. Before applying the sealing compound, prepare the surfaces as follows: - Remove any incrustations using a metal brush; - Thoroughly de-grease the surfaces using one of the following cleaning agents: trichlorethylene, petrol or a water and soda solution

COTTER PINS When fitting split cotter pins, ensure that the pin notch is positioned in the direction of the force required to stress the pin. Spiral cotter pins do not require special positioning.

SPARE PARTS Only use original spare parts bearing the logo shown below. Only genuine spare parts guarantee the same quality, duration and safety as original parts, as they are the same parts that are assembled during standard production. Only genuine spare parts can offer this guarantee. When ordering spare parts, always provide the following information: -

Machine model (commercial name) and serial number -

Part number of the ordered part, which can be found in the "Microfiches" or the "Spare Parts Catalogue", used for order processing

TOOLS used and illustrated in this manual have been: -

Specially researched and designed for use with these machines -

Essential for reliable operations -

Accurately built and rigorously tested so as to offer efficient and long-lasting operation By using these tools, Repair Personnel will benefit from: -

Operating in optimal technical conditions -

Obtaining the best results -

Saving time and effort -

Working in safe conditions

NOTE: Wear limit values indicated for certain parts should be considered to be recommended, but not binding. The terms "front", "rear", "right-hand" and "left-hand" (when referred to different parts) are determined from the rear, facing the direction of travel during operation.

Torque

Minimum hardware tightening torques Nm lb ft lb in for normal assembly applications unless otherwise stated

IMPORTANT: Shown below is the suggested initial torque tightening sequences for general applications, tighten in sequence from item 1 through to the last item of the hardware.



Imperial hardware

Nominal	SAE	SAE	SAE	SAE	SAE	SAE	LOCK-	LOCK-
Size	GRADE 2	GRADE	GRADE 5	GRADE	GRADE	GRADE	NUTS	NUTS
	Unplated	2 plated	Unplated	5 plated	8Unplated	8 plated	GR.B	GR.B
	or Silver	w/ZnCr	or Silver	w/ZnCr	or Silver	w/ZnCr	w/GR5	w/GR8
	plated	GOLD	plated	GOLD	plated	GOLD	BOLT	BOLT
1/4	6.2 Nm	8.1 Nm	9.7 Nm	13 Nm	14 Nm	18 Nm	6.9 Nm	9.8 Nm
	55 lb in	72 lb in	86 lb in	112 lb in	121 lb in	157 lb in	61 lb in	86 lb in
5/16	13 Nm	17 Nm	20 Nm	26 Nm	28 Nm	37 Nm	14 Nm	20 Nm
	115 lb in	149 lb in	178 lb in	229 lb in	250 lb in	324 lb in	125 lb in	176 lb in
3/8	23 Nm	30 Nm	35 Nm	46 Nm	50 Nm	65 Nm	26 Nm	35 Nm
	17 lb ft	22 lb ft	26 lb ft	34 lb ft	37 lb ft	48 lb ft	19 lb ft	26 lb ft
7/16	37 Nm	47 Nm	57 Nm	73 Nm	80 Nm	104 Nm	41 Nm	57 Nm
	27 lb ft	35 lb ft	42 lb ft	54 lb ft	59 lb ft	77 lb ft	30 lb ft	42 lb ft
1/2	27 Nm	73 Nm	87 Nm	113 Nm	123 Nm	159 Nm	61 Nm	88 Nm
	42 lb ft	54 lb ft	64 lb ft	83 lb ft	91 lb ft	117 lb ft	45 lb ft	64 lb ft
9/16	81 Nm	104 Nm	125 Nm	163 Nm	176 Nm	229 Nm	88 Nm	125 Nm
	60 lb ft	77 lb ft	92 lb ft	120 lb ft	130 lb ft	169 lb ft	65 lb ft	92 lb ft
5/8	112 Nm	145 Nm	174 Nm	224 Nm	244 Nm	316 Nm	122 Nm	172 Nm
	83 lb ft	107 lb ft	128 lb ft	165 lb ft	180 lb ft	233 lb ft	90 lb ft	127 lb ft
3/4	198 Nm	256 Nm	306 Nm	397 Nm	432 Nm	560 Nm	217 Nm	305 Nm
	146 lb ft	189 lb ft	226 lb ft	293 lb ft	319 lb ft	413 lb ft	160 lb ft	226 lb ft
7/8	193 Nm	248 Nm	495 Nm	641 Nm	698 Nm	904 Nm	350 Nm	494 Nm
	142 lb ft	183 lb ft	365 lb ft	473 lb ft	515 lb ft	667 lb ft	258 lb ft	364 lb ft
1.0	289 Nm	373 Nm	742 Nm	960 Nm	1048 Nm	1356 Nm	523 Nm	739 Nm
	213 lb ft	275 lb ft	547 lb ft	708 lb ft	773 lb ft	1000 lb ft	386 lb ft	545 lb ft

Metric hardware

Nominal	CLASS 5.8	CLASS 5.8	CLASS 8.8	CLASS 8.8	CLASS 10.9	CLASS 10.9	LOCKNUT
Size	UNPLATED	UNPLATED	UNPLATED	UNPLATED	UNPLATED	UNPLATED	CL.8
							w/CL8.8
							BOLT
M4	1.7 Nm	2.2 Nm	2.6 Nm	3.4 Nm	3.7 Nm	4.8 Nm	1.8 Nm
	15 lb in	19 lb in	23 lb in	30 lb in	33 lb in	42 lb in	16 lb in
M6	5.8 Nm	7.6 Nm	8.9 Nm	12 Nm	13 Nm	17 Nm	6.3 Nm
	51 lb in	67 lb in	79 lb in	102 lb in	115 lb in	150 lb in	56 lb in
M8	14 Nm	18 Nm	22 Nm	28 Nm	31 Nm	40 Nm	15 Nm
	124 lb in	159 lb in	195 lb in	248 lb in	274 lb in	354 lb in	133 lb in

Nominal	CLASS 5.8	CLASS 5.8	CLASS 8.8	CLASS 8.8	CLASS 10.9	CLASS 10.9	LOCKNUT
Size	UNPLATED	UNPLATED	UNPLATED	UNPLATED	UNPLATED	UNPLATED	CL.8
							w/CL8.8
							BOLT
M10	28 Nm	36 Nm	43 Nm	56 Nm	61 Nm	79 Nm	30 Nm
	21 lb ft	27 lb ft	32 lb ft	41 lb ft	45 lb ft	58 lb ft	22 lb ft
M12	49 Nm	63 Nm	75 Nm	97 Nm	107 Nm	138 Nm	53 Nm
	36 lb ft	46 lb ft	55 lb ft	72 lb ft	79 lb ft	102 lb ft	39 lb ft
M16	121 Nm	158 Nm	186 Nm	240 Nm	266 Nm	344 Nm	131 Nm
	89 lb ft	117 lb ft	137 lb ft	177 lb ft	196 lb ft	254 lb ft	97 lb ft
M20	237 Nm	307 Nm	375 Nm	485 Nm	519 Nm	671 Nm	265 Nm
	175 lb ft	107 lb ft	277 lb ft	358 lb ft	383 lb ft	495 lb ft	195 lb ft
M24	411 Nm	531 Nm	648 Nm	839 Nm	897 Nm	1160 Nm	458 Nm
	303 lb ft	392 lb ft	478 lb ft	619 lb ft	662 lb ft	855 lb ft	338 lb ft





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General specification





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Specifications.	4 Knotter Standard	4 Knotter Packer Cutter	4 Knotter Rotor Cutter
AXLES			
A. Length with Bale chute removed	7230 mm (248.6 in).	7230 mm (248.6 in).	7600 mm (299.2 in).
B. Length with bale chute half folded	7940 mm (312.6 in).	7940 mm (312.6 in).	8310 mm (327.2 in).
B. Length with bale chute extended	8510 mm (335.06 in).	8510 mm (335.06 in).	8800 mm (349.62 in).
C. Width (600/55-22.5- 12PR Tyres)	2580 mm (101.75 in).	2580 mm (101.75 in).	2580 mm (101.75 in).
C. Width (700/45-22.5- 12PR Tyres)	2820 mm (111 in).	2820 mm (111 in).	2820 mm (111 in).

Specifications.	4 Knotter Standard	4 Knotter Packer Cutter	4 Knotter Rotor Cutter
C. Width (500/50-17-14PR	2520 mm (99.25 in)	2520 mm (99.25 in).	2520 mm (99.25 in)
Tyres. Width			().
(500/50R17-146D Tyres)			
Height single axle	3100 mm (122.25 in).	3100 mm (122.25 in).	3100 mm (122.25 in).
Height tandem axle	3050 mm (120.062 in).	3050 mm (120.062 in)	3050 mm (120.062 in).
Weight (Base unit with bale			
eject system roller bale			
chute, and brakes			
Baler empty	6820 kg (15035 lb).	7170 kg (15807 lb).	7820 kg (17240 lb).
At hook up ring (Baler	1120 kg (2469 lb).	1220 kg (2689 lb)	1320 kg (2910 lb).
empty)			
At axle wheel (Baler empty)	5700 kg (12566 lb).	5950 kg (13117 lb).	6500 kg (14330 lb).
Units with auto steer	3 (1 1 1 1 1 1		······································
tandem axle			
Baler empty	7420 kg (16358 lb).	7770 kg (17129 lb).	8420 kg (18563 lb).
At hook up ring	1120 kg (2469 lb)	1220 kg (2689 lb)	1360 kg (2998 lb)
At axle wheel	6300 kg (13889 lb)	6550 kg (14440 lb)	7060 kg (15564 lb)
Swivel ring hitch	1 Standard ball size for	30 mm (1 18 in) (ISO 6489-3	A cat II and ASAE S482 cat II
	2. Standard ball size for	* 38 mm (1.5 in) (ISO 6489-3	cat III and ASAE S482 cat III
	3. Standard ball size for	40 mm (1.57 in) (ISO 6489-3	cat III and ASAE S482 cat III)
			-
Fixed ring hitch	Optional for German high h	nitch application (DINN 11026)
Pivotable ring hitch	Optional for Italian applicat	ion (CUNA type F2)	
Fixed ball hitch	Standard ball size for 80 m	m (3.15 in) (ISO 6489-3 cat I	I and ASAE S482 cat II)
Single axle with hydraulic	Options available	, , , , , , , , , , , , , , , , , , ,	
brakes			
Single axle with pneumatic			
brakes			
Single axle without brakes			
Spring mounted tandem			
and auto steer with			
hydraulic brakes			
Spring mounted tandem			
and auto steer with			
pneumatic brakes			
Spring mounted tandem			
and auto steer without			
Drakes			
Auto steer Max. steering	15 .	15 .	15 °.
Axie Darking braka	Folding grank type		
	i oluling crafik type.		
Operating width (DIN	1982 mm (78 06 in)	1982 mm (78.06 in)	2000 mm (78.75 in)
	1962 mm (76.06 m).	1962 mm (78.06 m).	2000 mm (78.75 m).
Width at deflectors	1968 mm (77 5 in)	1968 mm (77 5 in)	1968 mm (77 5 in)
Width at external tipes	1782 mm (70.18 in)	1782 mm (70.18 in)	1900 mm (77.3 in).
Diamator (on guarda)	1702 mm (10.10 m).	1782 mm (10.10 m).	1000 mm (12.02 in)
Number of tipes	201 IIIIII (10.3 III).	207 mm (10.3 m).	323 IIIIII (12.33 IN).
	66 mm (2.62 in)		
	00 MM (2.02 M).		
	4 Chain		
Drotection		Clin and eventure in a state	Clin and eventure interaction
Protection	Sup and overrunning	Sup and overrunning clutch	Silp and overrunning clutch
	ciulcii (nol adjustable) Preset et		
	1000 Nm (737 lb ff)		1430 IIII (ΙΟΟ III Π).
	15 x 6 00 6 4pr	<u> </u>	
Gauge wileels	10 X 0.00-0-4PI		

Specifications.	4 Knotter Standard	4 Knotter Packer Cutter	4 Knotter Rotor Cutter		
Pick up lift standard	Hydraulic. adjustable min. height setting				
Pick up flotation	Single adjustable right han	d			
Pick up reel speed	141 RPM.	140 RPM.	117 RPM.		
Centering auger diameter	330 mm (13 in).	330 mm (13 in).	260 mm (10.25 in).		
Centering auger direction	Undershot				
Centering auger speed	233 RPM.	231 RPM.	338 RPM.		
Windguard	Plate type, central, single I	neight adjustment.			
FEEDER					
Packer / Rotor	Packer: 2 forks 6 single tines	Packer: 3 forks 6 single tines	Rotor: width W pattern 972 mm (38.25 in).		
Drive	Chain No. 80	Chain No. 100	Chain No. 120		
Packer / Rotor rotation	168 RPM.	166 RPM.	86 RPM.		
Protection	Slip clutch (not adjustable) preset at 2100 Nm (1549 lb ft).	Slip clutch (not adjustable) preset at 4000 Nm (2950 lb ft).	Slip clutch (not adjustable) preset at 6500 Nm (4795 lb ft).		
PRE-COMPRESSION		i	i		
Charge chamber	Volume	Volume	Volume		
	0.25 m ³ (8.83 ft ³).	0.25 m ³ (8.83 ft ³).	0.25 m ³ (8.83 π ³).		
compensation	Automatic charge sensor e	ngaged stuffer cluttch, stuffer	trip sensitivity lever		
Stuffer	Fork type with 4 tines	Fork type with 6 tines	Fork type with 4 tines		
Drive	Oil bath gearbox				
Speed	Up to 42 cycles per minute	9			
Stuffer protection	Shearbolt M10 X 60 (10.9)				
Width	800 mm (31.5 in).				
BALE CHAMBER AND					
PLUNGER					
Plunger speed	42 strokes / min.				
Length of stroke	710 mm (27.93 in).				
Mounting	4 Vertical roller bearings running on recessed plunger rail, 2 horizontal bearings.				
Drive	Crank and connecting rod.				
Bale chamber size, width / height	800 X 870 mm (31.5-34.25 in).				
Bale chamber size, length	2540 mm (100 in).				
Bale density	Electric / hydraulic or hydraulic				
Density adjustment	From tractor seat, via mon	itor or manual density valve a	djustment.		
Bale pressing	2 pivotable side panels and	d top panel.			
Bale Width	800 mm (31.5 in).				
Bale Height	900 mm (35.43 in).				
Bale Length	1200-2500 mm (47.25-98.	43 in).			
Roller bale chute	Optional or standard depen	nding on configuration			
Plate bale chute					
Bale eject, tractor controlled					
Bale ejection rear controlled					
TYING MECHANISM					
Knotters quantity and type	4 double knot				
Twine spacing	172 mm (6.75 in).				
Knotters / needle drive	Oil bath gearbox and PTO	shaft			
Protection	Mechanical linkage, timed	with the plunger shearbolt M8	3 X 60 (8.8)		
Knotter performance indicators	Monitor (audio and visual)	and monitoring flags			
Twine storage	2 dust proof boxes				
Twine capacity	2 x 15 = 30 balls (2 interconnected balls per knotter and 3 interconnected balls per				
Extra storage boxes	2 lockable boyes (each abl	e to contain 2 halls of twing o	r a standard toolbox		
LAUA SIDIAYE DUXES					

Specifications.	4 Knotter Standard	4 Knotter Packer Cutter	4 Knotter Rotor Cutter		
Twine type:Heavy-duty	110-150 m/kg				
plastic					
Knot strength	1560 N (350 lb).				
Heavy-duty sisal	70 m/kg				
PTO speed	1000 RPM.				
PTO shaft	Low maintenance Power D	Drive			
PTO Protection	Shearbolt M10 x 70 (8.8).	Overrun-	Shearbolt M10 x 70 (8.8).		
	ning clutch and slip clutch	n. Set at	Overrunning clutch and slip		
	1200 Nm (885 lb ft).		clutch. Set at 1400 Nm (1033 lb ft).		
Flywheel: Diameter and	720 mm (28.37 in)				
weight	234 kg (516 lb).				
Flywheel brake	Direct acting				
Gearbox oil bath	Enclosed triple reduction gears spiral bevel (1st set) Spur (2nd set) Spur (3rd set)				
CUTTING SYSTEM					
Maximum number of knives	-	6	23		
Knife distance	-	Centre	39 mm (1.53 in) .		
		120 mm (4.72			
		in) On the sides			
		100 mm (3.93 in).			
Theoretical cutting length	-	<u>114 mm (4.5 in).</u>	40 mm (1.57 in).		
knife removal	-	From pick up front side	From knife drawer		
Knife operation	- Hydraulic from tractor, with status on the monitor				
Knife protection	-	Individual springs 2 off	Individual springs		
Knife and blank storage	- Separate				
BALER MONITOR	The baler system from serial number 4412 are				
(OPTIONAL)	ISOBUS 11783 compatible at 60 amperes.				
	Refer to the OPERATOR'S	S MANUAL for a full descrip	otion of		
	operating functions and settings that can be set and used before operating the baler.				

General specification





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Specifications	6 Knotter Standard	6 Knotter Rotor cutter
AXLES		
A. Length with Bale chute removed	7230 mm (284.6 in).	7600 mm (299.18 in).
B. Length with bale chute half folded	7940 mm (312.6 in).	8310 mm (327.2 in).
B. Length with bale chute extended	8510 mm (335.06 in).	8800 mm (349.62 in).
C. Width (600/55-22.5-12PR Tyres)	2960 mm (116.75 in).	2960 mm (116.75 in).
C. Width (700/45-22.5-12PR Tyres)	3200 mm (126 in).	3200 mm (126 in).
C. Width (500/50-17-14PR, Width	2900 mm (114.25 in).	2900 mm (114.25 in).
(500/50R17-146D Tyres)		
Height tandem axle	2950-3050 mm (116-120.06 in).	3050-3150 mm (120.06-124 in).
Weight (Base unit with bale eject		
system, roller bale chute, and brakes		

Specifications	6 Knotter Standard	6 Knotter Rotor cutter		
Baler empty	7720 kg (17019 lb).	8830 kg (19466 lb).		
At hook up ring (Baler empty)	1280 kg (2822 lb).	1550 kg (3417 lb).		
At axle wheel (Baler empty)	6440 kg (14198 lb)	7280 kg (16050 lb)		
Units with auto steer tandem axle	5 (1 1 5 (1 1 1 1 1 1 1 1 1 1	·		
Baler empty	8320 kg (18342 lb).	9430 kg (20790 lb).		
At hook up ring	1180 kg (2601 lb).	1550 kg (3417 lb)		
At axle wheel	7140 kg (15741 lb)	7880 kg (17372 lb)		
Swivel ring hitch	1. Standard ball size for 30 mm (1.18 in) (ISO 6489-3 cat II and ASAF			
, , , , , , , , , , , , , , , , , , ,	S482 cat II	, .		
	2. Standard ball size for 38 mm (1.5 in) (ISO 6489-3 cat III and ASAE S482 cat III			
	3. Standard ball size for 40 mm (1.57 in) (ISO 6489-3 cat III and ASAE S482 cat III)			
Fixed ring hitch	Optional for German high hitch application (DINN 11026)			
Pivotable ring hitch	Optional for Italian application (CUNA type F2)			
Fixed ball hitch	Standard ball size for 80 mm (3.15 in)	(ISO 6489-3 cat II and ASAE S482		
	cat II)			
Single axle with hydraulic brakes	Options available			
Single axle with pneumatic brakes				
Single axle without brakes				
Spring mounted tandem and auto				
steer with hydraulic brakes				
Spring mounted tandem and auto				
steer with pneumatic brakes				
Spring mounted tandem and auto				
steer with out brakes	45 9	4 5 9		
Auto steel Max. steeling axie	13 . Folding grank type	15 .		
Operating width (DIN 11220)	2246 mm (88.42 in)	2400 mm (94.5 in)		
Width at deflectors	2240 mm (87.97 in)	2400 mm (94.3 m).		
Width at external tipes	2232 mm (80.56 in)	2332 mm (32.02 m).		
Diameter (on guarda)	2040 mm (80.50 m).	2200 mm (86.62 m).		
Diameter (on guards)	207 IIIII (10.3 III).	529 mm (12.95 m).		
Tine encoding	64 double 128			
Number of here	66 mm (2.625 m).			
	4 Chain			
Protection	Slip and overrupping clutch	Slip and overrupping clutch		
	(not adjustable) Pre set at	(not adjustable) Pre set at		
	1000 Nm (737 lb ft).	1450 Nm (1069 lb ft).		
Gauge wheels	15 X 6.00-6-4PR			
Pick up lift standard	Hydraulic Adjustable minimum height	setting		
Pick up flotation	Single adjustable spring, right hand si	de.		
Pick up reel speed	141 RPM	117 RPM		
Centering auger diameter	330 mm (13 in).	260 mm (10.25 in).		
Centering auger direction	Undershot	Overshot		
Centering auger speed	233 RPM.	338 RPM.		
Windquard	Plate type central single height adjustment			
FEEDER				
Packer / Rotor	Packer: 3 forks Rotor: width W pattern			
	9 single tines	972 mm (38.25 in).		
Drive	Chain No 80	Chain No 120		
Packer / Rotor rotation speed	168 RPM	86 RPM.		

Specifications	6 Knotter Standard	6 Knotter Rotor cutter		
Protection	Slip clutch (not adjustable) pre-set at 2100 Nm (1549 lb ft).	Slip clutch (not adjustable) pre-set at 6500 Nm (4795 lb ft).		
PRE-COMPRESSION				
Charge chamber	Volume 0.3 m ³ (10.6 ft ³).	Volume + anti friction floor 0.3 m ³ (10.6 ft ³).		
Windrow size compensation	Automatic charge sensor engaged stu	ffer clutch. Stuffer trip sensitivity lever.		
Stuffer	Fork type with 6 tines	Fork type with 4 tines		
Drive	Oil bath gearbox			
Speed	Up to 42 cycles per minute			
Stuffer protection	Shearbolt M10x60			
Width	1184 mm (46.625 in).			
BALE CHAMBER AND PLUNGER				
Plunger speed	42 Strokes / min			
Length of stroke	710 mm (27.95 in).			
Mounting	4 Vertical roller bearings running on recessed plunger rail with 2 horizontal bearings.			
Drive	Crank and connecting rod			
Bale chamber size, width / height	1184 X 070 mm (46.62 X 34.25 in).			
Bale chamber size, length	2540 mm (100 in).			
Bale density	Electro hydraulic or hydraulic			
Density adjustment	From tractor seat using monitor or ma	nual density valve		
Bale pressing	Two pivotable side panels and a pivota	able top panel		
Bale Width	1200 mm (47.25 in).			
Bale Height	700 mm (27.5 in).			
Bale Length	1200-2500 mm (47.25-98.425 in).			
Roller bale chute	Optional items			
Plate bale chute				
Bale eject, tractor controlled				
Bale ejection rear controlled				
TYING MECHANISM				
Knotters quantity and type	6 double knot			
Twine spacing	180 mm (7.09 in).			
Knotters / needle drive	Oil bath grearbox and PTO shaft			
Protection	Mechanical linkage, timed with the plu	nger shearbolt M8x 60 (8.8)		
Knotter performance indicators	Monitor indication (audio-visual) and n	nonitoring flags		
Twine storage	Two dust proof boxes			
Twine capacity	2 x 15 = 30 Balls			
	Two interconnected balls per knotte	r		
	I hree interconnected balls per needle			
Extra storage boxes				
I wine type: Heavy-duty plastic	110-150 m/kg			
Knot strength	1560 N (350 lb).			
Heavy-duty sisal	70 m/kg			
PTO speed	1000 RPM.			
PTO shaft	Low maintenance Power drive (40hr g	reasing)		
PIO Protection	Shearbolt M10 x 60 (10.9).	Shearbolt M10 x 60 (10.9).		
	Set at 1400 Nm (1033 lb ft).	Set at 1600 Nm (1180 lb ft).		
Flywheel: Diameter and weight	800 mm (31.5 in)270 kg (595 lb).			
Hywheel brake	Direct acting			
Gearbox oil bath	Enclosed triple reduction gears spiral bevel = 3 Sets spur			
CUTTING SYSTEM				
Maximum number of knives	-	33		
Knite distance		39 mm (1.53 in).		
I heoretical cutting length	40 mm (1.57 in).			

Specifications	6 Knotter Standard	6 Knotter Rotor cutter	
knife removal	- From knife drawer		
Knife operation	- Hydraulic from tractor, with status of the monitor		
Knife protection	Individual springs		
Knife and blank storage	-	Separate	
BALER MONITOR (OPTIONAL)	The baler system from serial number 4412 are ISOBUS 11783 compatible at 60 amperes. Refer to the OPERATOR'S MANUAL for a full description of operating functions and settings that can be set and used before operating the baler.		

Consumables

General Lubricants

IMPORTANT: Consult the Operator Manual for the latest fluid types and quantities to use

ITEM	Servicing Interval	Amount	International Specifica- tion
Centralised greasing System			
Plunger grease Bank	Daily	As required	CASE AKCELA MOLY GREASELithium NLGI 2
Left hand general grease Bank	Daily	As required	Lithium NLGI 2
Right hand general grease bank	Daily	As required	Lithium NLGI 2
Left hand knotter grease bank	Daily	As required	Lithium NLGI 2
Right hand knotter grease bank	Daily	As required	Lithium NLGI 2
Automatic greasing system	Daily	4.0 L1 US gal	Lithium NLGI 2
Remaining conventional grease points	10h 50h 100h 250h	As required	Lithium NLGI 2
Integrated automatic oiler	Daily	5 L1.2 US gal	DIN 51524 part 2 HV46 (except ASTM D943 or ISO VG 46 API CE MIL-L-2104 E API CF-2/SJ
Linkages, threaded rods, and pivots	Monthly	As required	API GL5 MIL-L-2105 D
Main drive gearbox	Annually	20 L5.3 US gal	API GL5 MIL-L-2105 D
Stuffer drive gear box	Annually	3.75 L1.0 US gal.	API GL5 MIL-L-2105 D
Knotter drive gearbox	Annually	2.75 L0.7 US gal.	API GL5 MIL-L-2105 D
Bale density	Annually	9.0 L2.4 US gal.	DIN 51524 part 2 HV46 (except ASTM D943 or ISO VG 46 API CE MIL-L-2104 E API CF-2/SJ

Product identification

The machine is identified using a serial number and/or a manufacturing code. Machine identification information must be supplied when requesting parts.



Model, serial number and year of manufacture are stamped on the manufacturer's identification plate. The vehicle identification plate is located on the right-hand side of the baler hitch. The serial number is also stamped in the baler hitch.



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EXPLANATION OF MACHINE SERIAL NUMBERS 344.

Example of serial number = No 344238013

344125001: The first two digits identify the model within a product line:

- 4 Knotter Standard 80x90 bale size = 30
- 4 Knotter Packer cutter 80x90 bale size = 31
- 4 knotter Rotor cutter 80x90 bale size = 32

6 Knotter Standard 120x70 Bale size = 33

- 6 Knotter Rotor cutter 120x70 Bale size = 34 as shown above
- 6 Knotter Standard 120x90 Bale size = 35
- 6 Knotter Rotor cutter 120x90 Bale size = 36

34 (4) 238013: The third digit indicates the product line. There are 5 product lines in Zedelgem: 4 = Balers

344 (238) 013: These 3 digits indicate the batch in which the machine was made.

34 (4238) 013: Product line number (4) and batch together form the series number (4238).

344238 (013): The last 3 digits are a sequential number for each model within a batch.

Summarizing we can say that this machine is the 6 Knotter Rotor cutter 120x70 Bale size of series 4238.

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