

# To save time and improve efficiency, check your KUHN baler



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ANNUAL MAINTENANCE: 20 TEST POINTS

## FBP RANGE

Fixed chamber Baler-Wrapper Combination



### Daily maintenance:

- Clean the machine
- Check the correct lubrication by means of grease nipples
- Check the correct lubrication of all moving parts
- Visual inspection of all functions
- Check the belts
- Check the wrapping arms and safety arms

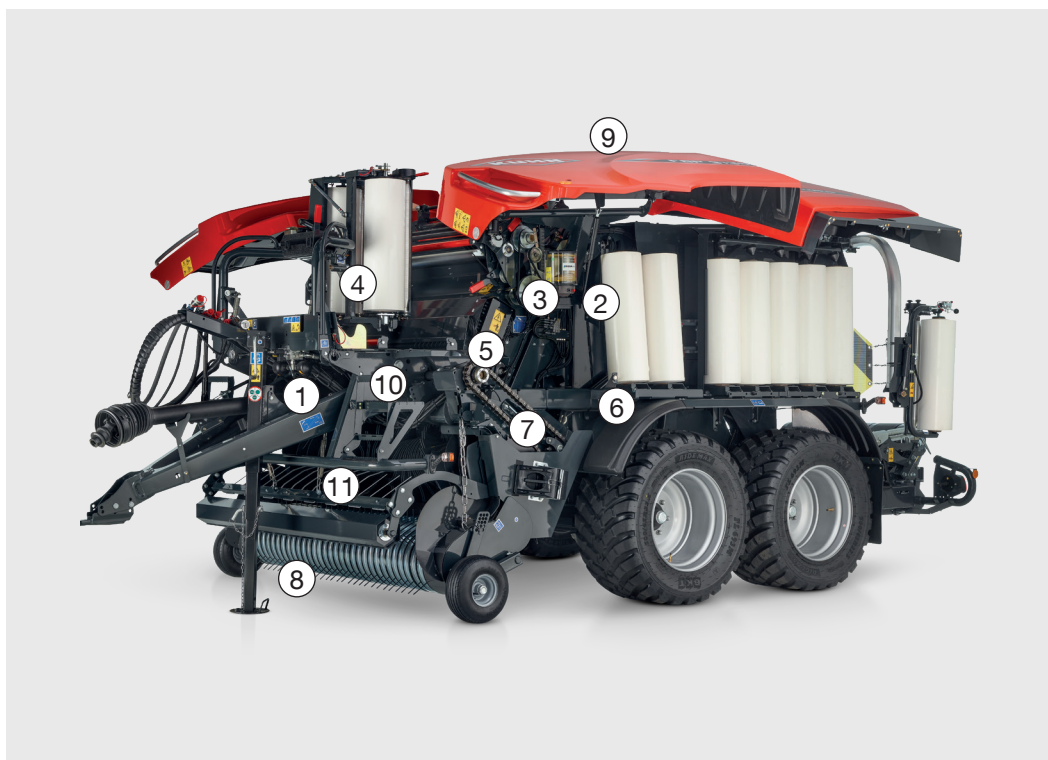


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**ANNUAL MAINTENANCE: 20 test points**

- ① Gearbox oil change
- ② Bale chamber drive chain (tension)
- ③ Automatic greasing and lubrication system test
- ④ Film, net and/or twine binding systems test
- ⑤ Electronic components test (control box and sensors)
- ⑥ Pick-up test (drive, tines, tine bars)
- ⑦ Rotor drive chain test (tension)
- ⑧ Roller test (bearings)
- ⑨ Total machine greasing
- ⑩ Baling chamber hydraulic block cleaning
- ⑪ Opticut system (knife sharpness and control) and hydraulic hatch test



- Hydraulic unit test and filter replacement ⑫
- Film cutting test (knives) ⑬
- Pre-stretcher test ⑭
- Safety systems test (satellite arm and emergency stop) ⑮
- Electronic components test (sensors) ⑯
- Wrapper functioning test in controlbox ⑰
- Total machine greasing ⑱
- Road signaling test ⑲
- Carriage (towing bar/wheel nuts) ⑳

### Items to check



Belts



Filter



Pre-stretcher roller




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**Check List**

**READ THE SAFETY INSTRUCTIONS IN THE OPERATING MANUAL PRIOR TO FOLLOWING THIS WINTER CHECKLIST**

	Control points	Description	Manual Ref:	✓
			 Maintenance	
	Check	Check the condition of parts and components, and replace if necessary. Check the levels of all fluids, oils and lubricants, replenish to the maximum level if necessary.		
1	Gearbox oil	Check the oil level.	§ 10.16	
2	Bale chamber drive chains	Check the tension, stretch and wear of all drive chains.	§ 10.11	
	Wrapping table drive chain	Check the chain tension	§ 10.18	
3	Automatic chain lubrication system	Check the oil level.	§ 10.15	
	Oil pump	Check the oil pump.		
4	Net roll	Check the net roll pre-tension.	§ 10.14	
	Net brake	Check the net brake tension.		
	Twine tubes	Check the wear and distance between the twine tubes and the bale chamber roller.	§ 10.12	
5	Sensors	Keep all sensors free of dirt. Make sure the distance of the sensors are correct.	§ 10.25	
6 & 7	Pick-up tines	Condition and completeness.	§ 10.9	
	Pick-up & cutting unit drive chain	Chain tension for the pick-up.		
	Stripper frame	The shape and position of the strippers		
8	Roller	Check roller for sharp edges or damages	§ 10.11	
	Bearings	Check bearing play		
9	Lubrication baler			
	Oil:			
	Tailgate cylinder	Oil the lower end of the tailgate cylinders.	§ 10.3.3	
	Net actuator	Oil the top and the bottom of the actuator.	§ 10.14	
	Knife mechanism	Oil the pivot points of the knife mechanism.		




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Control points	Description	Manual ref:	✓
		 Maintenance	
9	Grease:		
	PTO drive shaft	Lubricate the PTO drive shaft.	§ 10.7
	Pick-up, overload coupling, Opticut and rotor	Lubricate (the bearing of) the pick-up, overload coupling, Opticut and rotor.	§ 10.9
	Drive shaft	Lubricate the drive shaft left and right hand side	
	Pick-up overload clutch	Lubricate the pick-up overload clutch.	
	Rotor cutter bar	Lubricate the rotor cutter bar.	
	Dropfloor cylinder	Lubricate dropfloor cylinder.	
	Pick-up & cutting unit drive chain	Lubricate the chain.	
	Tailgate hinge	Lubricate the tailgate hinges.	§10.11
	Tailgate cylinder	Lubricate the tailgate cylinders	
	Bearings bale chamber	Lubricate via the lubrication blocks or Automatic grease system	
	Brake axle	Lubricate the brake axle adjustment.	
	Hitch ring	Grease underside of the hitch ring.	§ 10.24
	Support	Lubricate the support.	
10	Hydraulic hoses	Check for damages and leakages.	§ 10.8
	Hydraulic control block	Clean the block and empty the can	
11	Knives	Sharpen or replace the knives if they are blunt. Check the locking axle for wear.	§ 10.10
	Dropfloor cylinder	Check the cylinder on wear, play and leakage	§ 10.9
12	Hydraulic hoses	Check for damages and leakages.	§ 10.8
	Film wrapper hydraulic control block	Replace the filter element.	
	Cylinder of loading arm 1	Check the hydraulic cylinder for wear, play and leakage.	§ 10.17
	Cylinder of loading arm 2		
Table cylinder		§ 10.18	
13	Film cutter knife	Check the condition of the film cutter knife.	§ 10.19
	Film cutter cylinder	Check the film cutter cylinder for wear, play and leakage.	
14	Pre-stretch rollers	Check the rollers for rotating smoothly. Clean the rollers with methylated spirit or similar.	§ 10.13
15	Satellite gears	Check the satellite gears on wear.	§ 10.13
	Satellite brake	Check the satellite brake oil level.	
	Safety arm switch	Check the safety switches for functioning and damages	
	Sliding ring and sliding contacts	Check the sliding ring and sliding contacts for wear and oxidation.	




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Control points		Description	Manual ref:	✓
			 Maintenance	
16	Sensors wrapper	Keep all sensors free of dirt. Make sure the distance of the sensors are correct.	§ 10.20	
17	Function control wrapper	Test all functions of the wrapper with PIA		
Lubrication wrapper				
18	Oil:			
	Wrapping table drive chain	Oil the drive chain.	§ 10.19	
	Grease:			
	Hinge of loading arm 1	Lubricate the hinge of loading arm 1.	§ 10.17	
	Cylinder of loading arm 1	Lubricate the cylinder of loading arm 1.		
	Hinge of loading arm 2	Lubricate the hinge of loading arm 2.		
	Cylinder of loading arm 2	Lubricate the cylinder of loading arm 2.		
	Table hinge	Lubricate the hinge of the table.	§ 10.18	
	Table cylinder	Press grease in the lubrication points.		
	Pre-stretcher gears	Lubricate the pre-stretcher gears.		
	Film cutter	Lubricate the film cutter.	§ 10.19	
Satellite gears	Lubricate the teeth of the satellite gears.	§ 10.20		
19	Safety decals	Keep all safety decals clean and legible.	§ 3.12	
	Lighting	Check all lighting equipment for proper working.		
20	General			
	Complete machine			
	PTO drive shaft	Tubes of PTO shaft sliding correctly.	§ 10.7	
	Axle	Check the axle for damages and cracks.	§ 10.22	
	Bearing play	Check the bearing play of the wheel hubs.		
	Rims	Check the rims for damages and cracks.		
	Tires	Check the tire condition for damages (cracks, incisions, unusual objects) and pressure.		
	Brake shoes	Check the condition of the brake shoes.	§ 10.23	
	Brake hoses and brake connections	Check the hoses and connections for damages and leakage.		
	Tighten			
	Bolts and nuts		§ 10.6	
	Wheel nuts	Tighten the wheel nuts to 270 Nm.		
	Drawbar bolts and nuts	Tighten the drawbar bolts and nuts to 450 Nm.		
Drawbar eye	Tighten the bolts of the drawbar eye to 310 Nm.			



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