

TP PILOT K

TP PILOT K is developed to optimize the work on TP Wood Chippers with Crane and is standard on all TP chippers with crane operation. TP PILOT K is a stress control system which purpose is to prevent overload of the motor which is pulling the wood chipper. TP PILOT K is to be mounted in the cabine of the tractor. In addition to this, it is possible to read the revolution of the feed rollers.

If the rotation of the feed rollers does not match the rotation speed of the rotor disc, there will, at too low speed, not be maximum utilisation of the machine's capacity and at too high speed a breaking effect will occur, as the wood is pushed against the rotor disc. Beyond causing unnecessary wearing of the machine it can also cause accumulation of material in the funnel opening.

TP PILOT K contains:

- Monitoring of the rotation speed of the rotor disc. (rotation per minute)
- Control of start and stop of feed rollers based on the rotation speed of the rotor disc.
- Optional programming of start and stop of feed-rollers, for optimisation of wood chipper functionality based on the performance of the tractor.
- Monitoring of feed roller rotation speed, with alarm if top speed exceeds
- Hour counter - job time in hours/minutes
- Hour counter - total operating time in hours/minutes
- Indication of rotor- and roller speed in the same window display
- Acoustic and visual alarm for feed roller stop
- Prepared for external control of reversing of feed rollers
- Regulation of roller speed compared to speed of rotor disc for TP 280/400
- Key-in a knife position and an automatic calculation of correct roller speed on TP 280 and TP 400 is being made
- External opening to moving feed rollers on TP 400
- Temperature surveillance of hydraulic oil on TP 400 - optional on rest of the TP models
- Heating function for hydraulic oil



Features in TP PILOT K

	TP 250	TP 270	TP 280	TP 400
No-stress control	X	X	X	X
The actual rpm of the feed rollers is shown in the display	X	X	X	X
The actual rpm for the rotor is shown in the display	X	X	X	X
Timer for job/service time (can be reset)	X	X	X	X
Timer for total working time	X	X	X	X
Reading temperature of the hydraulic oil incl. system control for min. and max. oil temperature (1)	EXTRA	EXTRA	EXTRA	X
Calculation of the speed for feed rollers by entering the knife settings	X	X		
Automatic setting of rpm of the feed rollers by entering the knife settings			X	X
Automatic adjustment of the speed of the feed rollers			X	X
Timer system for heating the hydraulic oil on time (2)	X	X	X	
Automatic system for heating the hydraulic oil to the right temperature (3)	EXTRA	EXTRA	EXTRA	X
Programming of max. and min. rpm of the No-stress control	X	X	X	X
Acoustic and visual signal when feed rollers are blocked	X	X	X	X
Control for reversing of the feed rollers	X	X	X	X
Connection for external control for reversing of the feed rollers	X	X	X	X
Control for opening the feed rollers				X
Connection for external control for opening the feed rollers				X

- (1) Temperature sensor for the hydraulic tank. The sensor controls the min. and max. temperature of the hydraulic oil and will stop the system if the oil is not in the right working temperature. The parts no. are 20020314 and 20041096.
- (2) You activate the heating process on the TP PILOT unit and a timer starts up- The heating process is a system that let the hydraulic oil flow through the system by reversing the feed rollers with a low rpm on the PTO shaft.
- (3) The automatic will automatically stop the heating process when the right temperature is reached.