

PULSONIC 6

Optimal lubrication of needles and sinkers



The PULSONIC 6 lubrication system precisely meters a small amount of oil per pulse to ensure that oil is only distributed to the points required.

It is possible to individually program the amount of oil fed to each lubrication point. The system greatly reduces oil consumption. The external surface of the knitting machine remain dryer and the number of oil spots on the knitted fabric is greatly reduced.

The PULSONIC 6 is available with 12 or 24 oil outlets. The unit is set using the buttons alongside the easy-to-read display.

On knitting machines equipped with a CAN bus capable machine controller, the PULSONIC 6 lubrication system can be set directly via the machine controller. The machine control must be prepared for this by the knitting machine manufacturer.

ADVANTAGES

- Uniform distribution of oil over the entire cylinder - no oily stripes caused by excessive lubrication
- Fewer oil spots on fabric
- Individual lubrication programmes for needles and sinkers
- Lower oil consumption thanks to precision metering
- No unhealthy, harmful oil mist
- Lower power costs due to savings in compressed air
- Dry surfaces ensure less lint build-up
- Electronic monitoring of oil supply to lubrication points. If no oil is present, the knitting machine is shut down
- Yearly oil consumption can be calculated accurately
- Optional setting via machine control, provided that the knitting machine has been prepared for this by the manufacturer (CAN bus communication)



▶ PULSONIC 6

Components PULSONIC 6



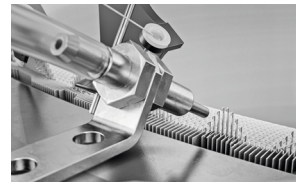
RECIPROCATING ROTARY PISTON

A stepping motor controls the reciprocating, rotary motion of the piston. When the motor starts, the piston is pushed downwards and the required amount of oil is pumped out at the selected lubrication point. When the piston is raised it creates a vacuum and draws in new oil from the oil reservoir through an inlet valve.



FUKO SENSOR

A series of sensors monitor the operation and oil flow of the PULSONIC 5.2. System faults are shown on the display.



NKS NEEDLE HEAD LUBRICATION (optional)

The optional NKS needle head lubrication is used to lubricate the knitting machine components subject to high stresses. Optimum lubrication intervals is programmed by the user intervals. The needle heads and latches are lubricated with an air-oil mixture. This lengthens the service life of needles.



FLUSH/WASH (optional)

The Flush/Wash function flushes the knitting elements with oil. Any dirt present is flushed out and washed away ensuring that it does not get on to the knitted fabric during production. This function can only be used with a machine controller.



12 OR 24 LUBRICATION POINTS (optional)

The PULSONIC 5.2 is available with 12 or 24 oil outlets.

OIL DISTRIBUTION DIAGRAM

A uniform oil film is spread over the entire surface of the cylinder dial and the cam-blocks.

TECHNICAL DATA

Power supply:	24V (20-33 V) 50/60 Hz
Run signal (machine isw running):	10 – 30 V AC
Max. power:	72 VA
Displacement per pump stroke:	4.2 – 25 mm ³
Adjustable oil dose per lubrication point:	0.3 – 24 ml/h
Max. oil consumption (with all nozzles operating):	Pulsonic 6: 288 ml/h Pulsonic 6/24: 288 ml/h

Oil reservoir capacity:	3.5 litre
Weight:	3 kg (approx.)
With optional NKS needle head lubrication the following are also required:	Compressed air supply: 3 bar (max.) (dry - no condensate)
	Compressed air consumption at 1.5 bar: 0.5 N m ³ /h for 3 NKS nozzles

ADVANCED KNITTING TECHNOLOGY

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