



Metzner Loop Controls

Contactless, tension-free unwind speed control

Metzner Loop Controls

For tension-free material feeding

Metzner



Error-free material infeed for processing machinery is a basic prerequisite for high length precision at high working speeds. Metzner loop control systems provide contactless speed regulation when working in combination with a feeding device or an unwind table.

Off-line and in-line operation

Loop controls working off-line serve to regulate the speed of a motorised de-coiler or material feed unit and, when working in-line, provide control of the working speed of the processing machine.

The position of the material passing through the loop control is continuously monitored by

sensors. The information from the sensors is used to compute the optimum speed and this is passed to the machine or the feeding unit. Metzner provide loop control systems matched to the material being processed: contactless for very thin or tension-sensitive rubber and plastic materials or alternatively with a weighted roller for stiffer products.

Different versions

The DHS 50 and DHS 220 loop control systems regulate the feeding speed via three or, optionally, four sensors, with the two lower sensors providing the speed control to the de-coiler or feeding unit. If the material is not fed quickly enough, the upper sensor

position is reached and the production is temporarily stopped, until the material has once again reached the lower sensor position. The machine then automatically continues the production.

The Metzner DHS 150-10 is equipped with ten sensors, making a continuous feeding speed possible. This version is especially recommended for use with materials that have to be very carefully and gently handled.

Integral interfacing as standard

All Metzner processing machines have integral interfaces for loop control systems as standard equipment.

Performance	Metzner DHS 50	Metzner DHS 220	Metzner DHS 150-10
Wire width max.	50mm (1.97")	220mm (7.87")	150mm (5.91")
Measuring range	650mm (25.59")	650mm (25.59")	900mm (35.43")
Wire storage capacity max.	1200mm (47.24")	1200mm (47.24")	1200mm (47.24")
Recommended positioning	2,5 – 3,5 m (8 – 11.5 ft) distance between the dereeler and the cable processing machine		
"In-line" processing possible	yes	yes	yes
"Off-line" processing possible	yes	yes	yes
Technical data			
Dimensions (W x D x H)	400 x 300 x 1200mm 15.7" x 11.8" x 47.2"	400 x 360 x 1200mm 15.7" x 14.2" x 47.2"	400 x 400 x 1200mm 15.7" x 15.7" x 47.2"
Power supply	Via machine interface or prefeeder interface		
Weight	8 kg (17 lbs)	15 kg (33 lbs)	20 kg (44 lbs)

Specifications are subject to change without notice.

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