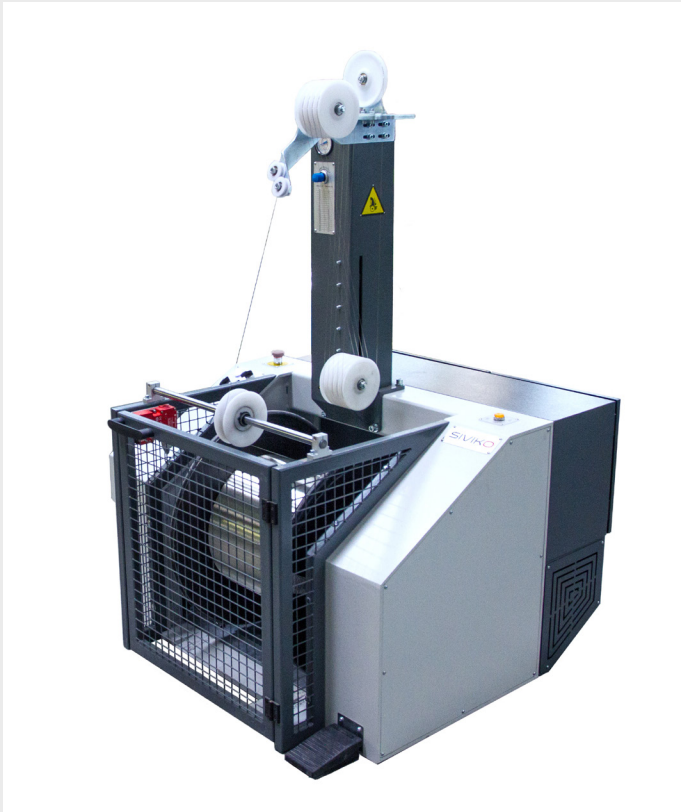


SIVIKO Wire Pay-off WPO 630H2



SIVIKO WPO 630H2 is an Industry 4.0 enabled, automated wire pay-off machine, which offers high-speed, reliable product quality and increased cost efficiency. It can work with individual wires with 0,16 ... 0,80 mm diameter and wire bundles with 0,18 ... 0,95 mm diameter. It is the perfect fit for bobbin winders, take-up machines etc.

Highlights

Design:

- Secure two-sided mounting and variety of sensors ensure maximum productivity and safety in operations
- Solid frame welded construction with compact design
- Industry 4.0 enabled - provides performance, energy consumption and status data through Modbus to external systems and devices
- Reliable safety relay monitoring the safety system

Quality:

- Keeps wire tension constant by precise pneumatic wire tension control, dynamic motor control via dancer PID loop feedback
- Twist free pay-off of individual wires and wire bundles
- Automatically stops when wire breaks

Productivity:

- Normal working speed up to 850 m/min, with a ramp-up time down to 10 s
- Quick reel change via pneumatically actuated pintle
- Easy change of reel type through additional adapters
- Wire pay-off path direction adjustment up to 90°

Cost efficiency:

- Reel loading without any auxiliary devices as it has embedded electrical gear motor lift system
- Lower energy consumption through high motor efficiency level (IE3) and variable-frequency drive (VFD)
- Cost-efficient maintenance due to durable design and availability of maintenance data

Technical specifications

General		
Linear speed	850 m/min (max for reel barrel diameter of 315 mm)	*customizable
Wire type	Cu, Cu tin-plated	
Wire bundle size	cross section 0,025 ... 0,75 mm ² / diameter 0,18 ... 0,98 mm	
Individual wire size	cross section 0,020 ... 0,50 mm ² / diameter 0,16 ... 0,80 mm	
Wire tension	2 N ... 20 N	*customizable
Ramp up/down for reel 650 kg	min 10 s	
Reel		
Number of reels	1	
Spindle capacity	650 kg (max)	
Reel dimensions	Φ 400 ... Φ 630	*customizable
Reel standards	DIN46395, DIN46397	*customizable
Operation		
Speed control	Self-adjustable by dancer	
Motor speed control	Variable frequency drive vector control	
Dancer	PID Loop Feedback	
Accumulator length	3000 mm	*customizable
Wire path direction adjustment	0 ... 90°	
Wire tension control	Manual precise pneumatics	
Reel lifting system	Electrical gear motor lift	
Jog mode	Push button and pedal operated	
Dancer rolls	Non-metal	*customizable
Safety		
Emergency stop	Twist to release push button	
Time until full stop	max 5 s at full speed with 650 kg reel	
Safety fence and door	Auto locked when operation starts	
Operation status	Lights and blinking code signals	*customizable
Motor		
Power and type	7,5 kW / 3 phase asynchronous motor	*customizable
Variable Frequency Drive	Vector control	
Motor break	Electromagnetic	
Motor cooling	Active	
Efficiency level	IE3	
Pneumatics		
Air supply	6 ... 10 bar	*customizable
Interface and Communication		
Analog input	Linear speed set point – 0 ... 10 V or 0/4 ... 20 mA	
Run; Fault	Outputs – dry contacts	*customizable
Communication	RS-485 (Modbus RTU), Ethernet (Modbus TCP)	
Industry 4.0	Enabled	
Power supply and mechanical data		
Weight	approx. 650 kg	*customizable
Dimensions	1150 x 1060 x 1620 mm (W x D x H)	*customizable
Power supply	AC 230/400 V, 50 Hz (AC 220/380 V, 50 Hz); 8 kVA	*customizable
Environmental conditions		
Degree of protection of cabinet	IP 54	
Working temperature	0 ... + 50 °C	
Relative humidity	10 ... 90 % without condensation	