

Electronically Controlled Pay-Off Unit for Wire and Tube



Series
AHP

Series AHP

▼ Controller with infinitely adjustable, pneumatic restoring force



▼ Central centering stanchion adjustment with set-up scale (option)



Our Expertise for your Benefit

- Increased product quality thanks to optimum interaction between machine and pay-off unit
- Increased performance thanks to shortened set-up times and enhanced machine dynamics
- Increased flexibility thanks to wide range of options
- Numerous simplified handling processes increase ease of use
- Safety concept fulfills latest production standards
- Entire machinery system (machine, pay-off unit, protective fence) from one source ensures CE conformity

Design Features

- Pay-off unit available in 6 sizes
- Transport option for fork-lift and crane
- Carrier plates for all standard wire coils (partial option)
- Quick changeover from left-handed to right-handed rotation
- Pneumatically controlled tension arm
- Different types of tension arms and deflection for single- and double-pass wire deflection
- Centering stanchions made of standard tube with quick clamping mechanism and set-up scale
- Central centering stanchion adjustment with set-up scale (option)

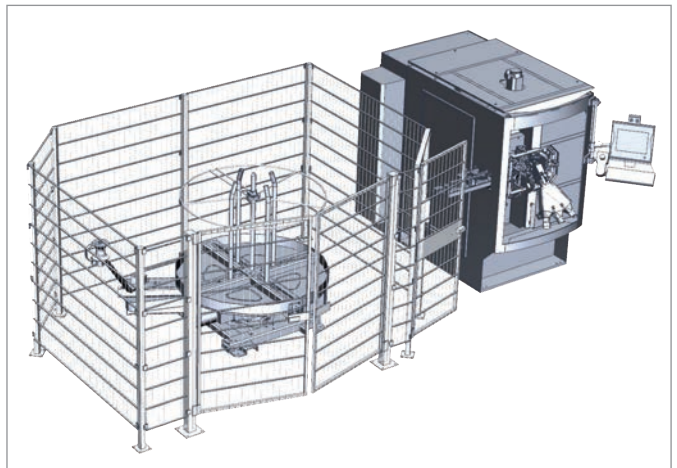
Operation

- Set-up operating mode
- Exchange of control information with the connected WAFIOS machine
- Reliable emergency stop

Mode of Operation

- Processing of all standard coils up to a max. wire and tube diameter of 16 mm
- Restoring force of the tension arm is pneumatically, infinitely adjustable
- Base speed regulated manually or automatically
- Control unit pre-configured for connected machine
- Optimized pay-off behavior thanks to coordinated speed between pay-off unit and connected machine
- Reduced-mass tension arm prevents buckling
- Wire end control with automatic shut-off (option)

▼ Protective fence for loading by crane



Reliable, Efficient and Versatile – WAFIOS Pay-Off Unit Series AHP

New Generation of Electronically Controlled Pay-Off Units

Further development of the proven WAFIOS AHL series of pay-off units with new options for communication between the connected machine and pay-off unit.

Available versions:

- LE (light arm, single-pass wire deflection)
- LM (light arm, double-pass wire deflection)
- SE (heavy arm, single-pass wire deflection)

Shortened set-up times thanks to simplified centering stanchion adjustment and quick clamping as well as quick changeover from right-handed to left-handed rotation.

Customizable configurations thanks to numerous options such as tension arm and deflection variants and different carrier plates, as well as options based on customer specifications for processing wires and tubes. Motor brake for emergency stop and hand-held operating device are included as standard. Automatic wire end control is available as an option.

Sophisticated safety concept, CE-compliant according to Machinery Directive 2006/42/EC, including as system in combination with a connected machine and protective fence. Loading option for fork-lift and crane as standard.

Quality

For more than 125 years, the name of WAFIOS has been synonymous with highest quality, safety standards, and technical innovations in the German machine manufacturing industry.

Reliability

Strict quality controls, state-of-the-art production systems, and many years of experience guarantee that your investment is safe in our hands. Our global service network ensures high availability of WAFIOS machinery.

Cost efficiency

High production output and a long service life will save money and shorten the amortization time of your investment.



▲ Wire deflection with spring strand for wire Ø up to ca. 4 mm (LE/LM)



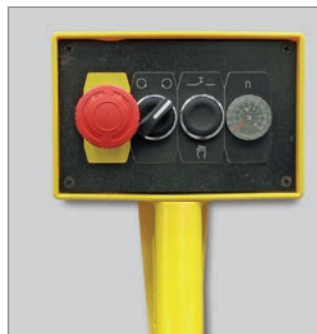
▲ Wire deflection with rollers for wire Ø of ca. 2-6 mm (LE/LM)



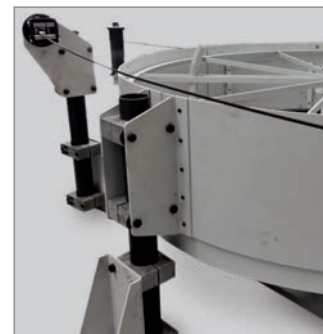
▲ Wire deflection with deflection roller for wire/tube Ø from ca. 3 mm (LE/LM)



▲ Heavy tension arm with deflection roller for large wire and tube Ø (SE)



▲ Hand-held operating device



▲ Protective casing for oil hardened and tempered spring steel wire protects operators from wire jumping off the carrier plate

Technical Data	AHP 1	AHP 2	AHP 3	AHP 4	AHP 5	AHP 6***
Max. load-bearing capacity: [kg]	750/600	1,500/1,200	1,200/1,200	3,000/3,200	2,200/1,800	5,000
Min. inner Ø of coiled material (mm)	300	300	300	300	300	on request
Max. outer Ø of coiled material [mm]*	850/1,000	1,000/1,300	1,000/1,300	1,300/1,800	1,800/2,300	
Max. height of coiled material [mm]**	800	800	800	800	800	
Installed power [kW]	2.2	4.0	5.5	5.5	5.5	
Nominal speed [rpm]	92	60	107	62	36	
Torque [Nm]	228	637	491	847	1,459	
Carrier plate height [mm]	560	560	622	622	622	

* subject to carrier plate (Ø mm)

** different heights as option

*** carrier plate with coil retainer tub is mandatory, no central centering stanchion adjustment

Type	AHP 1	AHP 2	AHP 3	AHP 4	AHP 5
Compression spring coilers					
F2, F3	LM				
F3, F4, F6		LM			
F4, F6				LM	
FSE 93					SE
Compression spring coilers					
FUL 26, 36	LM				
FUL 36, 46, 56, 76		LM			
FUL 56, 76, 86				LM	
Torsion spring machines					
FMU 16, 20, 25	LM				
FMU 25, 32, 40		LM			
FMU 40, 65, 80				LM	
FTU 1.5, 2.5	LM				
Ring coiling machines					
SNA 26, 36		LM		LM	
WSR 3		LM		LM	

LE (light arm, single-pass wire deflection)

LM (light arm, double-pass wire deflection)

SE (heavy arm, single-pass wire deflection)

SE* (reinforced steel version (option))

Type	AHP 1	AHP 2	AHP 3	AHP 4	AHP 5
Wire bending machines					
B/BM Series		LM		LM	
BM 90					SE
BMU		LM/SE		LM/SE	
BMS 25	LM	LM		LM	
BMS 36		LM		LM	
BT 3.2, 3.4, 5.2		LM/SE		LM/SE	
Straightening machines					
R 13	LM	LM			
R 23	LM	LM		LM	
R 23 S, R 36 S			LM/LE		
RE 30, R 36		LE		LE	
RE 40, R 45, 45 B, RB 45, 45 B		SE		SE	
R 53, 53 B, RB 53, 63				SE*	
Wire nail machines					
N 11-51	LM*				
N 36-61	LM*	LM*			
N 90, 80		LM*		LM*	
ND 90-91, 90 S, 91 S		LM*		LM*	

* LE, SE, if required

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