



**DSA / DSH**  
**Bobbin Winder with Pay-off Systems**



# DSA

## Design:

- automatic trapping and initial winding of wires
- automatic cutting and fixing of the wire ends
- release of wound spools into a magazine and automatic restart of the spooling process
- safety cover for the spooling zone

## Increase in productivity:

- automatic spool change (with magazine)
- NMI (NIEHOFF Machine Interface) color touchscreen for data entry, display of production parameters and maintenance instructions

## Energy and cost efficiency:

- winding of the spool in accordance with the parameters stored in the recipe management
- wire length calculation
- automatic stop for wire break (bundle)



DSA-L: automatic wire winding machine with 4 and 2 spindles



DSH-L: semi-automatic wire winding machine with 2 spindles

# DSH

## Design:

- after completion of the spooling process: opening of the counter presser latch via a switch, positioning of the wound spools on the lifting table
- manual removal of the spools, cutting and fixing of the wire ends
- manual insertion of the new spools, fixing of the wire start on the spool barrel and starting of the spooling process

## Increase in productivity:

- user-friendly guidance and parameter input via touchscreen

Technical data					
type		DSA-4	DSA-4 E	DSA-2 / DSH-2	DSA-2 E / DSH-2 E
version		automatic	automatic, single drive	automatic/semi-automatic	automatic/semi-automatic, single drive
material		Cu, Al, Fe, stainless steel, textiles	Cu, Al, Fe, stainless steel, textiles	Cu, Al, Fe, stainless steel, textiles	Cu, Al, Fe, stainless steel, textiles
single wire dia* (depending on the pay-off system used)	mm	0.05 ... 0.40	0.05 ... 0.40	0.05 ... 0.40	0.05 ... 0.40
permissible wire bundle cross-section (Cu soft) mm <sup>2</sup>					
min.		0.031	0.031	0.031	0.031
max.		0.453	0.370	0.844	0.288
permissible wire bundle (Cu Soft)	mm				
min.		16 x 0.05 Ø	4 x 0.10 Ø	16 x 0.05 Ø	4 x 0.10 Ø
max.		6 x 0.30 Ø	5 x 0.30 Ø	11 x 0.30 Ø	4 x 0.30 Ø
max. production speed	m/min	600	600	600	600
spool dimensions					
Flange-dia	mm	40 ... 80	40 ... 80	40 ... 110**	40 ... 110**
Winding length	mm	20 ... 110	20 ... 110	20 ... 110	20 ... 110
Total length	mm	25 ... 125	25 ... 125	25 ... 125	25 ... 125
Max. Sool weight	kg	3	3	3	3
need for compressed air	bar	6	6	6	6
connecting power	kVA	5	5	5	5
machine dimensions (W x D x H)	m	1.50 x 1.40 x 2.15	1.50 x 1.70 x 2.45	1.50 x 1.40 x 2.15	1.50 x 1.70 x 2.45
max. weight approx.	kg	530	550	530	550

\* depending on the used material

\*\* depending on spool size, pay-off situation and material

## Highest Spooling Quality for Optimum Further Processing

Technical data					
type		ARH 250	ARH250	ARP 630.2	AUH 315
version		Rotary Dancer	Linear Dancer	Pintle pay-off	Overhead pay-off
construction		Modular Structure	Modular Structure	Single unit	Modular Structure
material		Cu, Edelstahl	Cu, Al, Fe	Cu, Al, Fe	Cu, Al, Fe
single wire dia *	mm	0.03–0.15	0.06–0.20	NA	0.10–0.40
multiple wire dia. *	mm	NA	NA	4 x 0.10–9 x 0.30	NA
weight controlled wire tension	N	0.07–0.5	0.5–1.1	1.5–33	0.4–3.0
max. production speed	m/min.	300	500	600	400
spool dimensions					
Flange dia	mm	80–125	160–250	400–630	250–315
Max. spool weight	kg	10	10/25**	660	55
regulation for wire tension		Dancer	Dancer	Dancer	Hysteresis brake
spool take-up		Linch pin	Linch pin	Pintle	Linch Pin
machine dimensions (W x D x H)	m	1.20 x 1.40 x 1.60	1.20 x 1.40 x 1.60	1.40 x 0.90 x 1.71	1.14 x 0.90 x 1.60
weight approx.	kg	600	600	700	325

\* depending on the used material

\*\* option