

## Take-up and pay-off systems

### BAS 800.1 take-up and pay-off unit

- holds spools with a flange diameter of 630 to 800 mm
- pneumatic raising and lowering of the spools
- braiding product is wound onto the take-up unit via a rolling ring traverse.
- mechanically braked pay-off unit

### WH 1000 – 1250 – 1600 – 1900 – 2100 take-up units

- hold spools with a flange diameter of up to 2100 mm
- spool take up via pintles (optionally also with floating shaft on WH 1000)
- hydraulic raising and lowering of the drums
- braiding product is wound onto the take-up unit via a rolling ring traverse (infinitely variable pitch adjustment).
- optional: drive with dancer control

### AH 1000 – 1250 – 1600 – 1900 – 2100 pay-off units

- hold spools with a flange diameter of up to 2100 mm
- spools are mounted on pintles (optionally also with floating shaft on AH 1000)
- hydraulic raising and lowering of the spools
- mechanically braked pay-off unit
- optional: drive with dancer control

BAS 800.1 Take-up and pay-off unit



WH 1000 – 1250 – 1600 – 1900 – 2100 Take-up units



AH 1000 – 1250 – 1600 – 1900 – 2100 Pay-off units



(We reserve the right to modify technical specifications according to technical improvement and advances.)

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## BMV

## Rotary Braiding Machine

With 12, 16 or 24 bobbins



NIEHOFF – worldwide  
most advanced technology for  
the wire and cable industry



machines – systems – know-how – worldwide

BMV

# High-Tech Standard and Possible Variants

## Technical data

type	BMV 12 / BMV 16	BMV 16 Z	BMV 24	BMV 24 Z
braiding material (mm)	(AWG)	(AWG)	(AWG)	(AWG)
Cu:	4 x 0.05 ... 8 x 0.3 (4x44...8x28 ½)	4 x 0.05 ... 8 x 0.3 (4x44...8x28 ½)	4 x 0.05 ... 8 x 0.3 (4x44...8x28 ½)	4 x 0.05 ... 8 x 0.3 (4x44...8x28 ½)
Al:	6 x 0.05 ... 10 x 0.4 (6x0,05...10x26)	6 x 0.05 ... 10 x 0.4 (6x0,05...10x26)	6 x 0.05 ... 10 x 0.4 (6x0,05...10x26)	6 x 0.05 ... 10 x 0.4 (6x0,05...10x26)
steel:	7 x 0.03 ... 6 x 0.3 (7x48 ½ ...6x28 ½)	7 x 0.03 ... 6 x 0.3 (7x48 ½ ...6x28 ½)	7 x 0.03 ... 6 x 0.3 (7x48 ½ ...6x28 ½)	7 x 0.03 ... 6 x 0.3 (7x48 ½ ...6x28 ½)
stainless steel:	3 x 0.03 ... 5 x 0.2 (3x48 ½ ...5x32)	3 x 0.03 ... 5 x 0.2 (3x48 ½ ...5x32)	3 x 0.03 ... 5 x 0.2 (3x48 ½ ...5x32)	3 x 0.03 ... 5 x 0.2 (3x48 ½ ...5x32)
working direction:	vertical	vertical	vertical	vertical
braid binding:	2 over 2	2 over 2	2 over 2	2 over 2
number of bobbins:	12/16	16	24	24
bobbin rpm:	185*	185*	110*	110*
braiding pitch (mm):	3–120	3–120	6–180	6–180
central passage (mm):	50	50	50	50
haul-off capstan dia. (mm):	500/650	500/650	650/800	650/800
max. braiding bobbin dimensions (mm): (all standard types)	Ø 80 x 100/80	Ø 80 x 100/80	Ø 80 x 100/80	Ø 80 x 100/80
max. cable spool dimensions (flange dia. in mm):				
with integrated take-up and pay-off:	800	800	800	800
with separate take-up and pay-off:	2100	2100	2100	2100
haul-off tension spool carrier (N):	0.8 ... 10	0.8 ... 10	0.8 ... 10	0.8 ... 10
(dependent on cross-section and material)	4.0 ... 15	4.0 ... 15	4.0 ... 15	4.0 ... 15
	0.2 ... 6.0	0.2 ... 6.0	0.2 ... 6.0	0.2 ... 6.0
sound pressure level (dBA):	79	79	79	79
(acc. to EN ISO 3743-2 and DIN 45635-1)				
required compressed air supply (bar):	6	6	6	6
connected load (kVA):	7	7	8.5	8.5
machine dimensions (W x D x H) in m:	1.45 x 1.0 x 2.2	1.45 x 1.0 x 2.2	1.6 x 1.8 x 2.35	1.6 x 1.8 x 2.35
weight (kg):	approx. 1100	approx. 1100	approx. 1500	approx. 1500

\* dependent on the product and line configuration

## Rotary braiding machines with lever arm control in vertical working direction

- soundproof hood with window, service doors, lighting and ventilation
- separate, infinitely variable drive for the haul-off capstan
- user interface via touchscreen B&R PLC
- optimized slideway lubrication system (minimized lubricant consumption)
- optimized bobbin carrier, free of the influence of centrifugal forces (special dancer arrangement)
- temperature-controlled slideway
- frequency-controlled main drive
- maintenance-free AC drives

### optional:

- braid binding 1 over 1
- ceramic anti-wear coating for the haul-off capstan
- separate take-up and pay-off units according to customer requirements
- tension control at the take-up and pay-off (for delicate braiding materials)
- roller device for BMV 24 for the manufacturing of flat strands
- optical empty bobbin detection
- longitudinal tape inlet ahead of the braid
- AH/WH 1000 – 1250 – 1600 – 1900 – 2100
- central tape winder for additional film application



- bobbin carrier with tension control (max. spool size 80 x 100/80 mm)
- empty bobbin detection



- central tape winder

