

BMV

Rotary Braiding Machine

Expertise, Customer Driven, Service – in Good Hands with NIEHOFF



BMV

Technical data							
type		BMV 12	BMV 16	BMV 16 Z	BMV 16 F	BMV 24	BMV 24 Z
braiding material	mm ²						
Cu (soft)		0.02–0.56	0.02–0.56	0.02–0.56	0.01–0.10	0.02–0.56	0.02–0.56
AL		0.04–1.00	0.04–1.00	0.04–1.00	0.02–0.20	0.04–1.00	0.04–1.00
FE (soft)		0.01–0.37	0.01–0.37	0.01–0.37	0.01–0.07	0.01–0.37	0.01–0.37
Stainless steel		0.01–0.20	0.01–0.20	0.01–0.20	0.01–0.04	0.01–0.20	0.01–0.20
working direction		vertical	vertical	vertical	vertical	vertical	vertical
braiding binding (pattern)		2 over 2	2 over 2	2 over 2	2 over 2	2 over 2	2 over 2
number of bobbins		12	16	16	16	24	24
bobbin	rpm	175/200*	175/200*	175/200*	150	110/130*	110/130*
braiding pitch	mm	3–120	3–120	3–120	1.8–45	6–180	6–180
central passage	mm	50	50	30	50	50	30
capstan diameter Ø	mm	500/650	500/650	500	400	650/800	650/800
max. braiding bobbin dimension	mm	80 x 100/80	80 x 100/80	80 x 100/80	70 x 85/55	80 x 100/80	80 x 100/80
max. cable spool dimension (Flange-Ø)	mm						
with integrated pay-off and take-up		800	800	800	630	800	800
with separate pay-off and take-up		1,600	1,600	1,600	1,000	1,600	1,600
haul-off tension at spool carrier (dependet on cross-section and material)	N	0.9–10 3.0–15 0.6–6.0	0.9–10 3.0–15 0.6–6.0	0.9–10 3.0–15 0.6– 6.0	0.3–3.0	0.9–10 3.0–15 0.6– 6.0	0.9–10 3.0–15 0.6– 6.0
sound pressure level (aaccording EN ISO 3743-2 and DIN 45635-1)	dBA	79	79	79	79	79	79
require compressed air supply	bar	6	6	6	6	6	6
connected load	kVA	10	10	15	10	12	17
machine dimension (W x D x H)	m	1.45 x 1.00 x 2.40	1.45 x 1.00 x 2.40	1.45 x 1.00 x 3.10	1.45 x 1.00 x 2.40	1.70 x 1.60 x 2.50	1.70 x 1.30 x 3.10
weight approx.	kg	1,100	1,100	1,400	1,100	1,650	1,750
		*optional					

Design:

- for 12, 16 or 24 bobbins
- sound enclosure with window, service doors, lighting and ventilation
- separate, infinitely variable drive for the haul-off capstan
- temperature-controlled slide-way
- frequency-controlled main drive
- maintenance-free AC drives

Increase in quality:

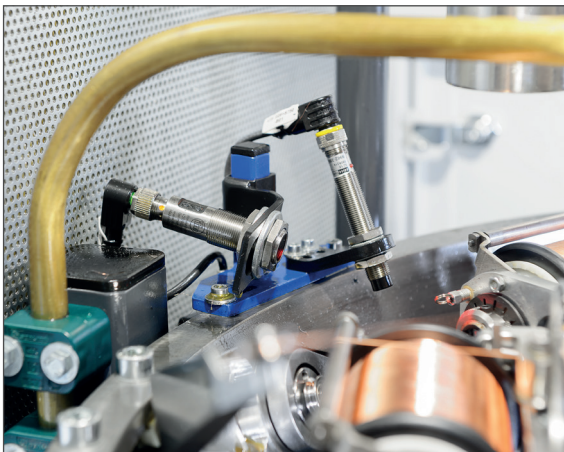
- bobbin carrier with tension control

Energy and cost efficiency:

- slide-way lubrication system for minimized lubricant consumption
- NMI (NIEHOFF Machine Interface) color touch-screen for data entry, display of production parameters and maintenance instructions

Options:

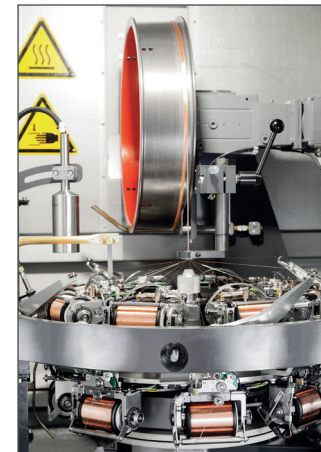
- braiding pattern 1 over 1
- ceramic anti-wear coating for the capstan
- separate take-up and pay-off units according to customer requirements AH/WH 1000 – 1250 – 1600
- tension controlled at the take-up and pay-off (for delicate braiding materials)
- flattening device for BMV 24 for the manufacturing of flat braids
- optical empty bobbin detection
- longitudinal taping device before braiding
- integrated central tape winder for additional taping after braiding
- Speed increase (200/130) with monitoring of the bobbin filling degree and temperature control



empty bobbin
detection



central
tape winder

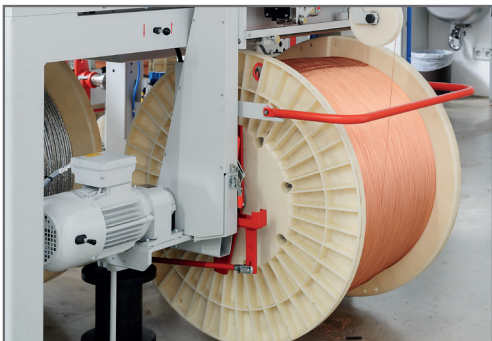


bobbin carrier with
tension control
(max. spool size
80 x 100/80 mm)

Take-up and pay-off units

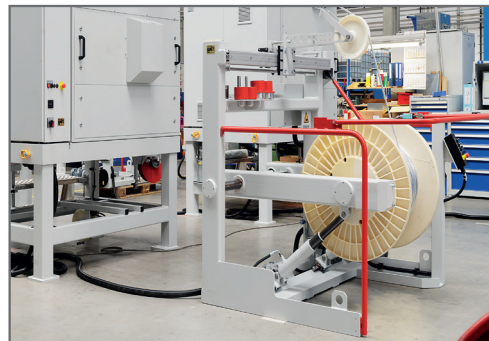
BAS 800.1 take-up and pay-off unit

- holds spools with a flange diameter of 630 to 800 mm
- pneumatic lifting and lowering of the spools
- braiding product is wound onto the take-up unit via a rolling ring traverse (infinitely variable pitch adjustment)
- mechanically braked pay-off unit
- spool take up via floating shaft



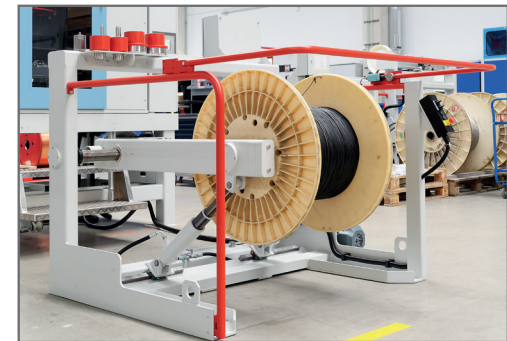
WH 1000 – 1250 – 1600 take-up units

- hold spools with a flange diameter of up to 1,600 mm
- spool take up via pintles (optionally also with floating shaft on WH 1000)
- hydraulic lifting and lowering of the drums
- braiding product is wound onto the take-up unit via a rolling ring traverse (infinitely variable pitch adjustment)
- optional: dancer controlled drive



AH 1000 – 1250 – 1600 pay-off units

- hold spools with a flange diameter of up to 1,600 mm
- spools are mounted on pintles (optionally also with floating shaft on AH 1000)
- hydraulic lifting and lowering of the spools
- mechanically braked pay-off unit
- optional: dancer controlled drive



We reserve the right to modify technical specifications according to technical improvement and advances. 05.2022