

High-speed braiding machines

MR-15/MR-11

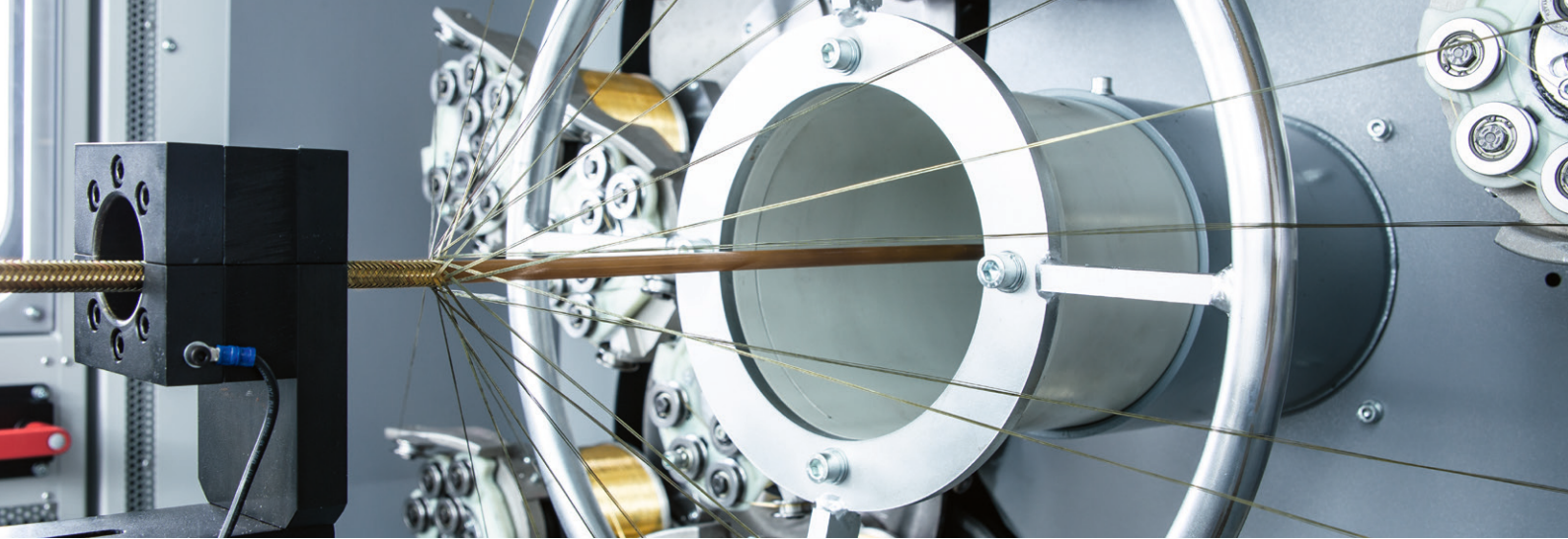


Mayer & Cie. manufactures braiding machines that produce reinforcements for high-pressure hoses. In this highly specialised sector, we have over 40 years' experience. Leading automotive, construction machinery and aviation manufacturers rely on the performance and reliability of our machines.

Our braiders work precisely. The carrier sets and controls the wire or yarn tension and optimally guides either yarn or wire. Our braiders run smoothly thanks to an integrated lubricating system that makes them low-maintenance. Every machine deck runs at the right rev count and the pull-off caterpillar is synchronised.

Our Services

- ✓ Machines for wire braiding/reinforcements of high-pressure hoses with inside diameters of up to 50 mm (2")
- ✓ Machines for textile braiding of hoses with inside diameters up to 150 mm (6")
- ✓ High machine reliability (CE-compliant)
- ✓ Braiding based on the maypole principle with 2-over-2 and 3-over-3 braid pattern
- ✓ Modular, sound insulating enclosure as part of the scope of delivery for all machines
- ✓ Customised braiding machine lines
- ✓ Supporting machinery for up- and downstream processes such as winding machines, hose chillers, etc. round off the portfolio



Highlights of MR-15/MR-11



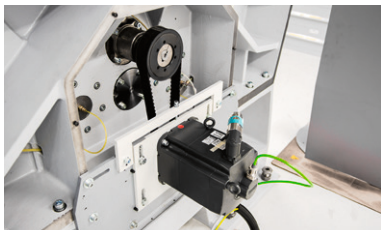
Carrier:

The wire or yarn tension is set and controlled via the carrier. Tension ranges from 25 to 135 N. The carriers also ensure optimal wire or yarn guidance.



Integrated lubricating system:

Mayer & Cie. braiding machines come with an integrated lubricating system and an oil level control unit to make sure that the machines' rotating parts are lubricated optimally – as evidenced by the significantly lower maintenance costs of our machines.



Servo control system:

Our single-, double- and triple-deck machines are powered by the latest servomotor technology. Each deck can be set individually at the required speed. The caterpillar haul-off unit's servomotors are synchronised with the deck motors. Thanks to this control principle, pitch can be set and monitored infinitely and precisely.



Remote service:

Mayer & Cie. machines can be supplied with a remote access facility. The operator can rely on competent support from the Mayer & Cie. team with both remote servicing and installing new software.



Easy set-up through an intelligent control system

The machine control system is set and monitored by a clear control panel on the control cabinet. This ensures fast and safe batch setting. All essential information about the ongoing production can be displayed and retrieved here.



Technical Highlights

Single Deck			Double Deck				Triple Deck		
									
			MR-11				MR-15		
		Number of carriers	16	20	24	36	18	24	36
Rpm of rotor 1/min	Bobbin standard	Wire	225	225	225	225	225	225	225
		Yarn	265	265	265	265	265	265	265
	Bobbin long	Yarn	245	245	245	245	245	245	245
	Bobbin extra long	Yarn	200	200	200	200	200	200	200
Rpm of carrier 1/min	Bobbin standard	Wire	56	45	38	25	75	56	38
		Yarn	66	53	44	29	88	66	44
	Bobbin long	Yarn	61	49	41	27	82	61	41
	Bobbin extra long	Yarn	50	40	33	22	67	50	33
Braid pattern			2x2	2x2	2x2	2x2	3x3	3x3	3x3
Center line hight			1304 mm	1304 mm	1304 mm	1580 mm	1304 mm	1304 mm	1580 mm

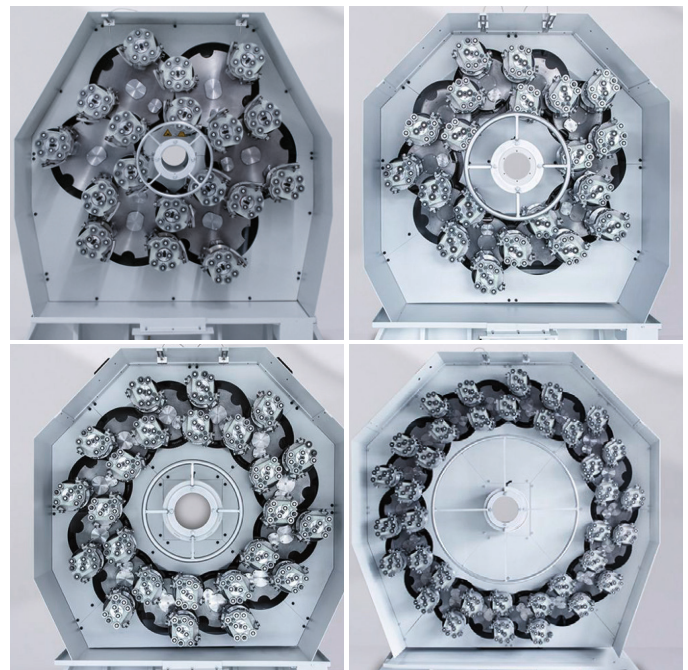
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www.mayercie.com/en/braiding-machines/

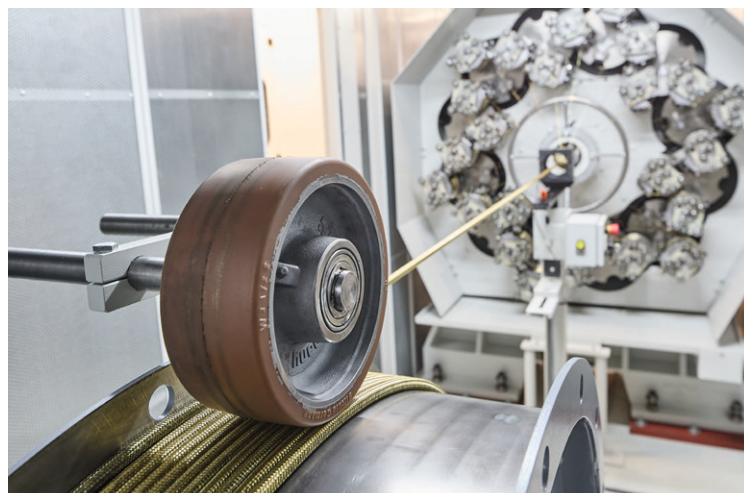




Haul Off MC (caterpillar or belt)

The haul off MC is standard for Mayer braiding machines. It is suitable for hoses and tubes of up to 160 mm (6 inches) in diameter and comes either as a caterpillar haul off with PAD design or as a belt haul off. Clamping is done mechanically by merging the clamping jaws. To guarantee a high braiding quality with a constant pitch length, haul off and braiding unit are synchronized.

Technical data haul off		MC-2 L for braiding machines up to 24C		MC-3 L for braiding machines 36C	
Hose diameter	4 – 160 mm	Weight	705 kg	Weight	724 kg
Linear track speed	0 – 5 m/min	Dimension haul off:	1175 x 1630 x 1412 mm (LxWxH)	Dimension haul off:	1175 x 1630 x 1620 mm (LxWxH)
Voltage	380 – 480 V 50/60 Hz	Centerline height:	1304 mm	Centerline height:	1580 mm



CasptanWheel

The CasptanWheel is an alternative take-off unit particularly suitable for hoses with small diameters. The braided hose is wound over the friction wheel whose rotation pulls the hose out of the braiding deck and feeds it into a take-up unit. The drives of the friction wheel and the braiding deck are synchronized to grant a high braiding quality with constant pitch length.

Technical data CapstanWheel for braiding machines up to 24C			
Hose diameter	4 – 50 mm	Weight	395 kg
Linear track speed	0 – 5 m/min	Dimension capstan wheel	1150 x 1000 x 1550 mm (LxWxH)
Voltage	380 – 480 V, 50/60 Hz	Centerline height	1304 mm
Wheel diameter	1000 mm		