



Penguin

BRAIDING MACHINES

*Double Deck Horizontal
Wire Braiding Machine*



Penguin braiding machines are built with design and material perfected over years of experience in building a range of braiding machines & are engineered for precision braiding of high performance hoses. The modular design makes it possible to tailor the machine to suit the requirement of the customer. Machines are available as vertical/horizontal configuration, suitable for wire/yarn braiding, single or multiple deck with options of capstan/caterpillar take-off.

These Braiding machines are characterized by high productivity, simplicity and excellence in performance. The hoses manufactured by these machines are far superior to conventional hoses in strength, appearance and durability.

Penguin Braiding Machines are indigenously designed and Penguin is the only indigenous manufacturers of these heavy duty machines in India and one among the very few manufacturers in the world.



*Single Deck Horizontal
Wire Braiding Machine*



Caterpillar



Inner view of Double deck horizontal braider



Single Deck Vertical Wire Braiding Machine

The machines are built with a steel framed structure. The vertical configuration occupies a floor area of 1.7x1.6m and the drives and take-off are located at the top of the machine. The spindles can be accessed from either side through conveniently placed safety interlock doors. The deck assembly is engineered to ensure smooth sliding and exchange of shoes. Exceptional smooth running, minimum vibration and very low noise level are salient features of the machine.

The performance of the machine is continuously monitored by a PLC. This provides continuous monitoring of pitch and production data. Essential production data can be stored and retrieved conveniently by this arrangement. Optic sensors are used to sense the presence of wire in the bobbin. Electronic circuit senses breakage of wire strands. All faults are monitored through the PLC. This machine incorporates all features required by the hose industry for producing wire braided high-pressure hoses.

The machine can operate speeds upto 175 horn gear rpm. The deck speed can be varied through change gears. The initial take off tension is provided by dead weight arrangements.



Double Deck Vertical Yarn Braiding Machine



Single Deck Vertical Yarn Braiding Machine

FEATURES

- ❑ Vertical / horizontal machine with single / double deck construction
- ❑ Vibration free operation
- ❑ Carrier transfer controlled by positive horn gears
- ❑ Recirculating lubricating system to ensure longevity of deck assembly
- ❑ Ergonomically designed doors and openings, so that the bobbins can be easily replaced
- ❑ Electronic gearing for pitch control
- ❑ Independent deck control
- ❑ Latest technology - No top plate
- ❑ Suitable for braiding with wire tension upto 8kgs / carrier
- ❑ 750 x 250mm wide capstan take-off with additional pull-up rollers for slip-free operation at high tensions
- ❑ Horn gear speed upto 200 rpm
- ❑ Large bobbin capacity: 80mm dia. x 200mm traverse



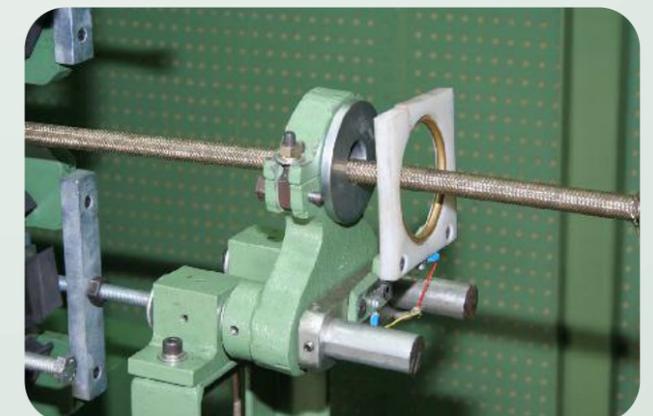
Braided hoses



Carriers



Yarn braider - Deck



Sensor

SPECIFICATIONS

Number of Carriers	24	16
Configuration	Vertical	Horizontal
Horn Gear		
Diameter	192 mm	
Speed	175 rpm	
Carrier	Wire carrier with detachable shoes	
	Yarn carrier with integrated shoes	
Bobbin		
Diameter	80 mm	
Traverse	200 mm	
Volume	820 cc	
Pitch	Variation by change gears	
Take-off	Capstan	Caterpillar
	Diameter	750 mm
Width	250 mm	
Noise level	< 75 dB	
Main motor		
Speed	1440 rpm	
HP / kW	12.0 HP / 9kW	7.5 HP / 5.5 kW
Lubrication	Force feed automatic re-circulating type	
Lubrication motor	0.25 HP	



Manufactured by



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