Penguin HOSE WRAP / UNWRAP SYSTEM (For Flexible Mandrels)

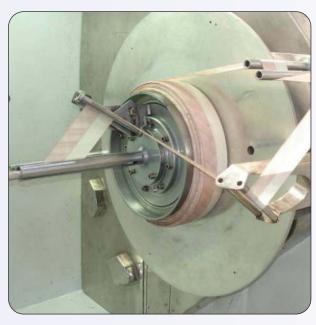


Penguin Wrapmaster
1000C wraps and
unwraps cured tape
over flexible mandrels.
The machine can wrap
hoses of different
diameter and use range
of tape widths. The
operation is completely
controlled from the
interactive touch
screen. The machine

ensures that wrapping is

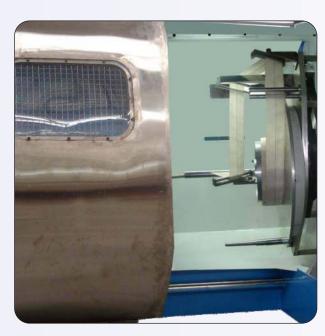
Model:
WRAPMASTER 1000C
with RH Head assembly

done with minimum variation in pitch and at controlled wrap and unwrap tension. The mechanical sub systems are the wrap head, haul-off caterpillar, brand tape feeder and doors.



Wrapping head

The head has a wrapping plate and tape spool mounted concentrically on a hollow pintle. The tape spool can be mounted to the spool drive plate by three setscrews. The machine uses 'C' type split spool cores.



Sliding door

The machine is provided with sliding doors. Convenient transparent window is provided on the door for the operator to monitor the progress of the operation. This stainless steel door collects the water splashing during the wrapping operation and provides for convenient drainage.



Caterpillar

The caterpillar has rubber lined positive drive belts and both the top and bottom belts are power driven. The caterpillar jaws are opened and closed pneumatically. The front side is covered and provided with a transparent window. The caterpillar can be accessed for lubrication and adjustments with conveniently located rear doors.



Brand tape system

The Wrapmaster 1000C has an unique brand tape feeding and collection system. The system is driven by separate motor with drive and ensures trouble free feeding of brand tape even at high speeds. Short time changeovers from wrap to unwrap mode are possible even when the brand tape system is ON. A simple foolproof tape guide provides convenience and flexibility (and the point of delivery of tape can be adjusted). During unwrapping, the spent tape can be reeled over disposable cores. The traverse arrangement for winding disposable bobbins is conveniently located.

SPECIFICATIONS \

Head drive 22 kW
Spool drive 15 kW
Caterpillar drive 3.3 kW
Brand tape drive 1.5 kW

Drives Servo drives

HMI 9" Colour touch screen

Operation Fully automatic with PLC Control Frame Heavy duty steel structural frame

Caterpillar Positive drive belt with pressure distributing rollers

Compressed air 7 kg / cm²; 30 litres / hour

Noise level < 75 dB

PRODUCTION DATA:

Mandrel system Flexible mandrel Hose / Cable length No restriction

Type of hose Wire / fabric reinforced

Pintle bore diameter Upto 80 mm
Output Upto 60 m / min.

TAPE SPOOL CAPACITY:

Core Taper core with removable section
Storage One operational + two storage

TAPE:

Core diameter 308 mm (12.1") Maximum tape spool dia. 750 mm (30")

Tape width 30 mm to 100 mm (1.2" to 4")

Maximum tape length 1600 m (5,252 ft)

Power consumption <15 kW
Floor space 1.4 x 3.0 M
Weight 3500 kg



Control panel with AC



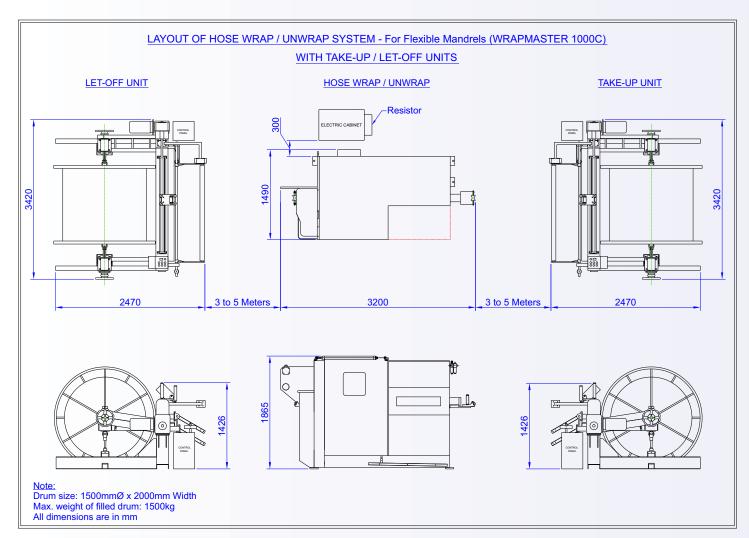
The wrapping machine is driven by four electric motors viz.

- Head drive motor
- Spool drive motor
- > Caterpillar drive motor and
- > Brand tape drive motor

Drives

The motors are driven by precision drives and are synchronized through the dive controllers. The synchronization between the head and caterpillar speed ensures less than ± 0.1 % (one in thousand) variation in pitch during wrapping. During unwrapping, the caterpillar responds almost instantaneously to ensure that the tape is unwrapped neatly under control of optic sensors. The machine can be brought to rapid stop in a controlled manner without variation in pitch. The spool motor is controlled accurately to maintain tension set through the operator interface.

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9" touch screen

Wrapmaster 1000C is controlled by state-of-the-art controller that communicates with the individual motor drives at high speeds. The operator controls the machine through the interactive touch screen and the push bution stations provided in the machine.

The machine can be brought to rapid stop in a controlled manner without variation in pitch. The spool motor is controlled in a torque controlled mode and it responds to torque value set through the operator interface.



Manufactured by



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