



Penguin Engineers

Make your

Hose the Best &

Lead the Rest

with

PENGUIN

- Braiding
- Knitting
- Wrap / Unwrap

Leader in Hose Machines



*Productivity & Reliability
for Hose Industry*

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HOSE KNITTING

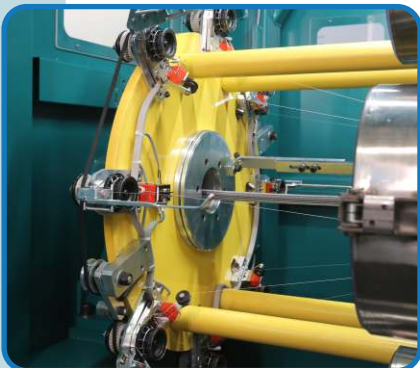
CONTINUOUS LINE PROCESS - High Speed Online with Extruder



- Suitable for low-medium pressure knitted hose
- Minimum distortion from the manufacturing process
- Photo sensor stop motion for yarn cut
- Precision cams for efficient knitting
- Large yarn capacity - Big bobbins
- Variable speed drive
- Precision pulling caterpillar
- HMI - Multi function
- Rope pulley for interchangeable Knitting head
- Use of Economical and sturdy knitting needles
- Front door opening protected with safety switch
- Automatic PLC Control system
- Pneumatic caliper brake
- Dancer control
- Positive storage feeder
- Pulley block beam for head change
- Needle flap break sensor

CATERPILLAR

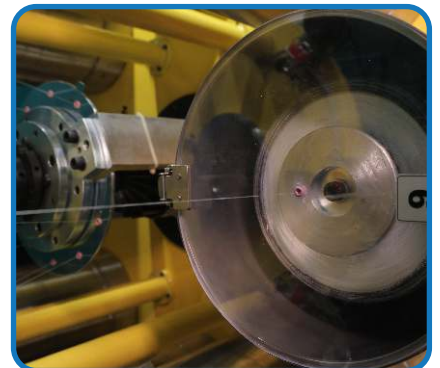
- Sturdily built rigid structure with enclosures
- Contact length ~ 600mm, width 76 mm
- Linatex coated timing belt
- Control system with communication to the knitting machine drive
- Speed adjustment by potentiometer with digital display
- Encoder for measuring real product speed
- Hose guide assembly at both the ends of caterpillar



Positive storage feeder



Bobbin drums & Positive storage feeder



Yarn cone bobbins drum

Number of feeders	8
Yarn content / bobbin	5 kg max.
Maximum diameter of knitted hose	10 - 80 mm (other sizes optional)
Bobbin dimensions (Ø x L)	240 x 260 mm
Knitting module power	7.5 HP
Caterpillar power	2 HP
Interchangeable heads	Optional
Head speed	upto 400 rpm
Type of needle	Crank type
Line speed	Upto 20 m / min. (depending on pitch)
Knitted reinforcement	Circular knitting type, plain stitch
Yarn type	Dipped or un-dipped (Aramid, Polyester, Rayon)
Yarn package type	Cross-wound on cylindrical standard bobbins type
Rubber types	EPDM, NBR, NBR/PVC, CR, EACM, CSM, CPE .
Knitted hose types	Radiator hoses, fuel hoses and other hoses
Power supply	380 - 440V, Three phase, 50 - 60 Hz
Electronic Control	PLC & 4" HMI



Caterpillar



Human Machine Interface



Caterpillar exit guide roller



Pneumatic caliper brake



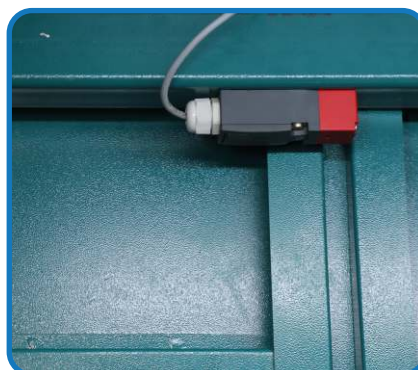
Pulley block beam



Positive storage feeder



Control panel with PLC



Door safety limit switch



Push buttons



Slip ring



Penguin Engineers



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Italindia Packplus (P) Ltd.



Penguin Engineers (P) Ltd.

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