Apex Extrusion & Application on beads

Apex Stitching from both sides



Apex Application Quality



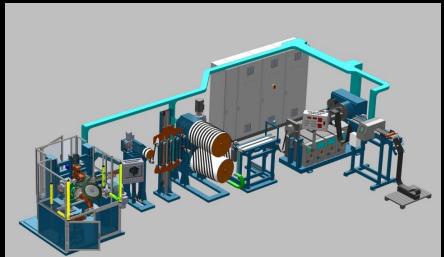
Bead Apexing Line 13" - 20"

This line has been designed based on many years of production experience in various tire factories worldwide and can be used for production of beads with apex for the high performance tyres.

The key advantage of this line is the powerful stitching of apex to the bead **from both sides** by specially designed stitching discs, which guarantee that the apex will never separate from the bead during the turn-up stage at the tire building machine.

Apex extrusion, cooling down, feeding to the drum, application on the bead, cutting and splicing are fully automatic. The butt splice quality is excellent and constant, while the production output is 6 beads per minute, or approx. 7.500 beads per day.

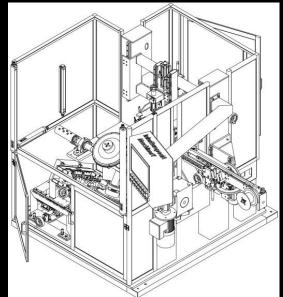
The line can be supplied with Intereuropean own design apex extruder, or with any other suitable existing or commercially available extruder.





Bead Apexing Line 13"- 20" for PCR & LT tires

MACHINE PARAMETERS	DESCRIPTION	PRODUCT PARAMETERS	VALUES
Net machine cycle time	≤10 sec. (approx. 6 beads per minute)	Bead type	Square / Hex / Round
Number of operators	l per shift	Bead diameter	13"- 20"
Centring accuracy of apex application (apex off-centre)	+/- 0,5 mm	Bead width	5,4 - 9,5 mm
Apex splice type	Head-to-head (butt joint)	Bead height	5,4 - 9,5 mm
Apex splice method	Automatic	Apex type	Triangular
Number of apex splices	1	Apex base	Flat
Apex application method	Automatic by 2-disk stitching device with adjustable application pressure	Apex height	15 -60 mm
Apex cutting method	automatic by dual blade knife	Apex fitting angle	80°- 90°
Knife temperature	Hot	Apex width	5,4 – 9,5 mm
Bead Lock & Centering on the drum	By Expansion of the drum segments	Apex temperature (after cooling)	Max 30°C
Type of apex feeding Apex Extruder Features:	By direct extrusion	Viscosity of apex (Mooney Standard at 100°C)	Min - 65 Max - 82
- Extruder Type	Cold Feed 75mm (pin type)	Environment temperature	Max 30 °C
- Extruder Feeding System	By feeding conveyor with metal detector	Hardness of apex after curing	70 - 90 (shore A)
- Feeding compound sheet dimension	125 mm (width) x 8 mm (thickness)		
- Extruder Speed Control	Automatic by Dancer Roll	See See	
Extruder Temperature Control Unit : - max temperature	110°C		





set ± 2°C

4 zones (head / body 1/ body 2 / screw)

Cooling drums fed by cold water from

- Adjustable drum axes position - Spiral water circulation system

~ 20 m with tention control (optional)

dedicated Pack Chiller

~ 5 m standard

- tolerance of temperature control

- independent control zones

Number of cooling drums

Cooling drums features

Apex festoon capacity

Apex cooling system

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