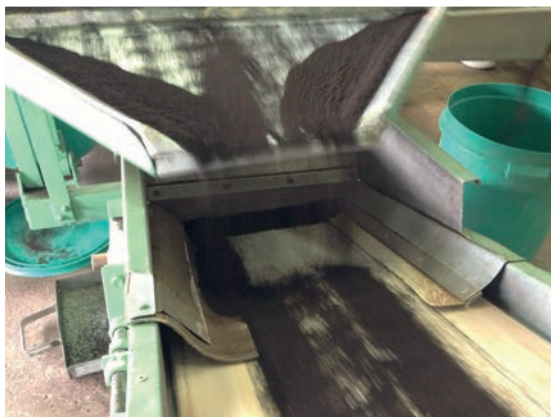


50 YEARS
1970-2020



 **esbelt**
Conveyor belts



Tea Industry. **esbelt** process belts.

- Consumer safety: FDA and EU food certified.
- End product processed without altering its organoleptic characteristics.

Enhanced chemical and mechanical resistance, longer lasting and easier maintenance.

BELTS FOR THE TEA INDUSTRY



1. Withering, where the green leaves are stored in galvanized containers with a perforated base.

2/3. Incline conveyor from withering to green leaf sorting.

4. Green leaf sorting on a thoughted incline conveyor (Clina 21CK).

THE MANUFACTURING PROCESS

Picking & Transporting

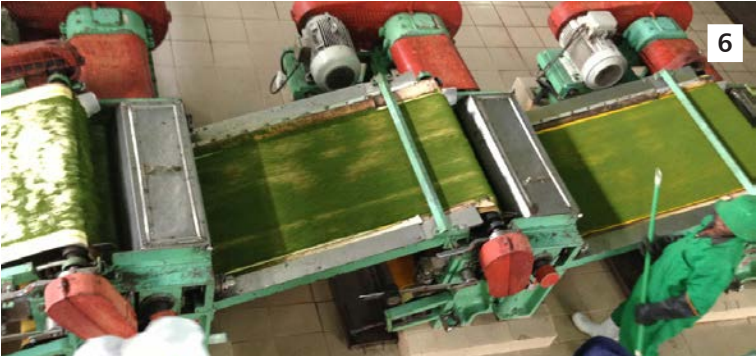
The tea is carried to the withering throughs either in bulk or in bag.

Withering

After withering, the leaf is conveyed to the processing plant: **Clina 21CK**, **Clina 12CF** (slider bed) or **Espot 20CC** (roller bed).



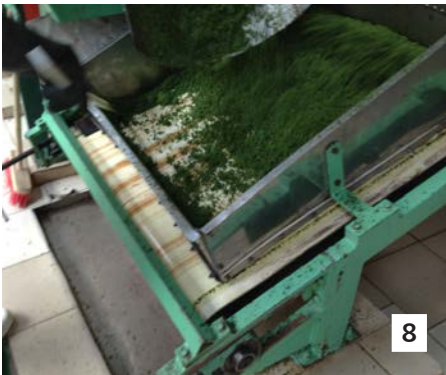
5. Incline conveyor from lines 1 and 2 to C.T.C. belt (Clina 12CF).



C.T.C. (Crush, Tear & Curl)

During C.T.C. phase aggressive juices are in contact with the belt: **Clina 20CK** (1.5mm thick top cover) or **Clina 2035** (1.2mm thick).

6 to 9. C.T.C. Belt **Clina 20CK** with bottom tracking guides NE.B11-62.





10 to 12. After fermentation the brown tea is transferred to the Dryer on a **Clina 20CK/Clina 21CK, Clina 2035, Clina 12CF or Clina 20CF** belt.

13. After dryer to sorting: **Clina 10FF and 16FF**.



C.F.U. (Continuous Fermentation Unit)

At the start of the fermentation process, the leaf is still moist: **Clina 21CK** (throughed) or **Clina 20CK / Clina 2035** (flat).

Drying

After fermentation the tea is less wet. The belts used on these conveyors are **Clina 20CK, Clina 21CK, Clina 2035, Clina 12CF or Clina 20CF**.

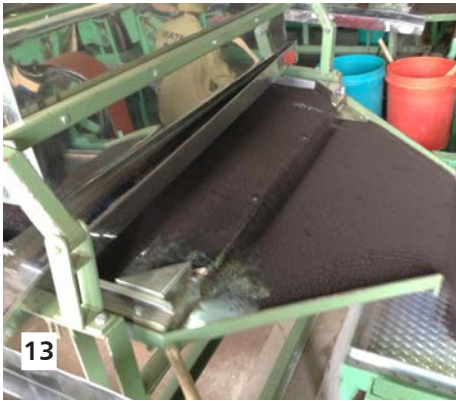
After the dryer the tea is hot and should not be conveyed on PVC covers, as it may get a “plastic” taste. The belt to use immediately after the dryer is **Clina 10FF, or Clina 16FF** for moderate inclines: The rough finish cotton polyester top side of these belts allows the tea to be conveyed even on inclined conveyors with little slippage.

Bagging & Packing

Throughout this section **Clina 16FF** is widely used. Once the tea has cooled down completely and has to be conveyed at steep inclines, **Aster 21HF** or **Clina 12CF** with **cleats** can be used.

Hopper feeding

Some factories use elevator belt **Esport 20CC** with **Neucan buckets** and other plants use incline conveyor belts **Clina 20CK** or **Clina 20CF** with sidewalls and cleats.



FEATURES		BENEFITS
Non toxic belts according to EU regulation 10/2011 and FDA regulation CFR21.	➡	<ul style="list-style-type: none">- End user safety.- No migration of toxic derivatives to the conveyed product.
Specially formulated PVC for contact with tea juice .	➡	Increased life span keeping the belt properties for a longer time.
Thick top cover.	➡	Longer lasting, delays damages to the fabrics.
Structured PVC bottom cover.	➡	<ul style="list-style-type: none">- Belt fabrics are protected, avoiding stretch and distortion.- Reduced friction coefficient allows slider bed support.
Rigid weft for flat conveyors.	➡	Good cross stability, easy tracking.


esbelt Belts Applications in the Tea Industry.

Belt type	Withering	C.T.C.	C.F.U.	From CFU to Dryer	Drying	Bagging Packing	Hopper feeding
CLINA 10FF	-	-	-	-	X	-	-
CLINA 12CF	X	-	-	X	-	X	-
CLINA 16FF	-	-	-	-	X	X	-
CLINA 20CF	-	-	-	X	-	-	X
CLINA 2035	-	X	X	X	-	-	-
CLINA 20CK	-	X	X	X	-	-	X
CLINA 21CK	X	-	X	X	-	-	-
ESPOT 20CC	X	-	-	-	-	-	X



Different grade of Tea.

esbelt Conveyor Belts in the Tea Industry.

Belt type		Top cover			Bottom cover		Food Quality		Fabrics		Belt thickness mm	Working load at 1% elongation N/mm	at 20°C		Belt type	
		Material	Colour	Finish	Material	Finish			N° plies	Weft			A  B ø mm ø mm			
CLINA	CLINA 10FF	-	Natural	Cotton/Poly	-	Cotton/Poly	FDA	EU	2	Flexible	1,40	7	10	10	CLINA 10 FF	CLINA
	CLINA 12CF	PVC	White	Smooth	-	WP	FDA	EU	2	Rigid	2,10	10	35	55	CLINA 12CF	
	CLINA 16FF	-	Natural	Cotton/Poly	-	Cotton/Poly	FDA	EU*	2	Rigid	2,55	5	40	40	CLINA 16FF	
	CLINA 20CF	PVC	White	Smooth	-	WP	FDA	EU	2	Rigid	2,80	15	55	75	CLINA 20CF	
	CLINA 2035	PVC	White	Smooth	PVC	Pattern K	FDA	EU	2	Rigid	3,50	15	75	90	CLINA 2035	
	CLINA 20CK	PVC	White	Smooth	PVC	Pattern K	FDA	EU	2	Rigid	4,10	9	75	90	CLINA 20CK	
	CLINA 21CK	PVC	White	Smooth	PVC	Pattern K	FDA	EU	2	Flexible	2,60	20	75	75	CLINA 21CK	
ESPOT	ESPOT 20CC	PVC	White	Smooth	PVC	Smooth	FDA	EU	2	Flexible	4,10	20	140	140	ESPOT 20CC	ESPOT

EU = Regulation EU 10/2011 EU* = Regulation 1935/2004

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