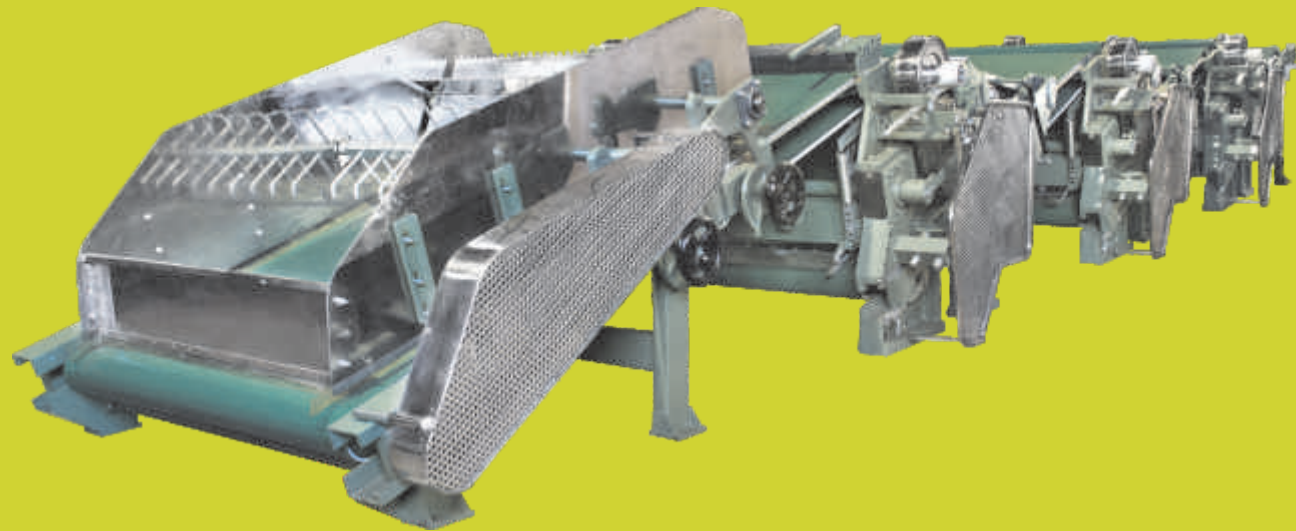


KaizenNOVA

THE TRAILBLAZING CTC MACHINE FROM TIGL



T & I GLOBAL LIMITED
PARTNERING THE TEA INDUSTRY WORLDWIDE

TIGL, an engineering conglomerate and ISO 9001 organization is a leading manufacturer of Tea Processing Machinery with an established user base in every tea growing area of the world. Our manufacturing units are located in the engineering hubs of Coimbatore and Kolkata. Together they offer the following latest range of machinery.

KaizenNOVA The Trailblazing CTC Machine

Matrix PVB Fermenting Machine

Everest Vibro Fluid Bed Dryer

Conquest Combination Tea Dryer

Blaze Zero Casting Steel Heater

Shola Efficient Air Heater

Axis Auto Milling Machine

Smart Axis Auto Chasing Machine

Rollomax The New Generation Rolling Table

Tivane The Ideal Pre-conditioner for Quality Teas

Falcon Energy Efficient Axial Flow Fans

Tea Colour Sorter

Tea Harvesting Machine

We at TIGL are committed to provide our customers with processing solutions which are cost-effective, energy efficient and result oriented, and, above all, backing it all up with the very best customer support.

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TECHNICAL SPECIFICATION

Available in 13", 9.5", 8.25"

Machine	Model Size	K-076 30"	K-090 36"	K-110 42"	K-120 48"	K-130 52"
Power HP*						
13" Dia Roller	1st Cut	20/25	25/30	30/40	30/40	40
	Subsequent Cuts	15/20	20/25	25/30	25/30	30
8.25", 9.5" Dia Roller	1st Cut	20	25			
	Subsequent Cuts	15	20			
Rated Output (Kgs / hr)*						
13" Dia Roller		800-1000	1000-1200	1200-1400	1600	1750
9.5" Dia Roller		700-800	800-900	900-1000		
8.25" Dia Roller		600-700	700-800	800-900		
Segments (Common to all models)						
		OD	ID			
	13" Dia Roller	330 mm	270 mm			
	9.5" Dia Roller	240 mm	185 mm			
	8.25" Dia Roller	210 mm	160 mm			
Overall Dimensions	Height (mm)	960	960	960	960	960
	Width (mm)	2280	2430	2580	2760	2950
Length (Common to all models)		Singlet : 4445	Duplex : 6530	Triplex : 8615	Quadriplex : 10700	

*These are only recommendations subject to variations depending upon leaf quality and type of cuts.

*Some of the features shown in the photographs such as, stainless steel perforated guards are not in the scope of our standard supply.

Due to continuous process of development the design is subject to change without notice.



finer cut for your teas



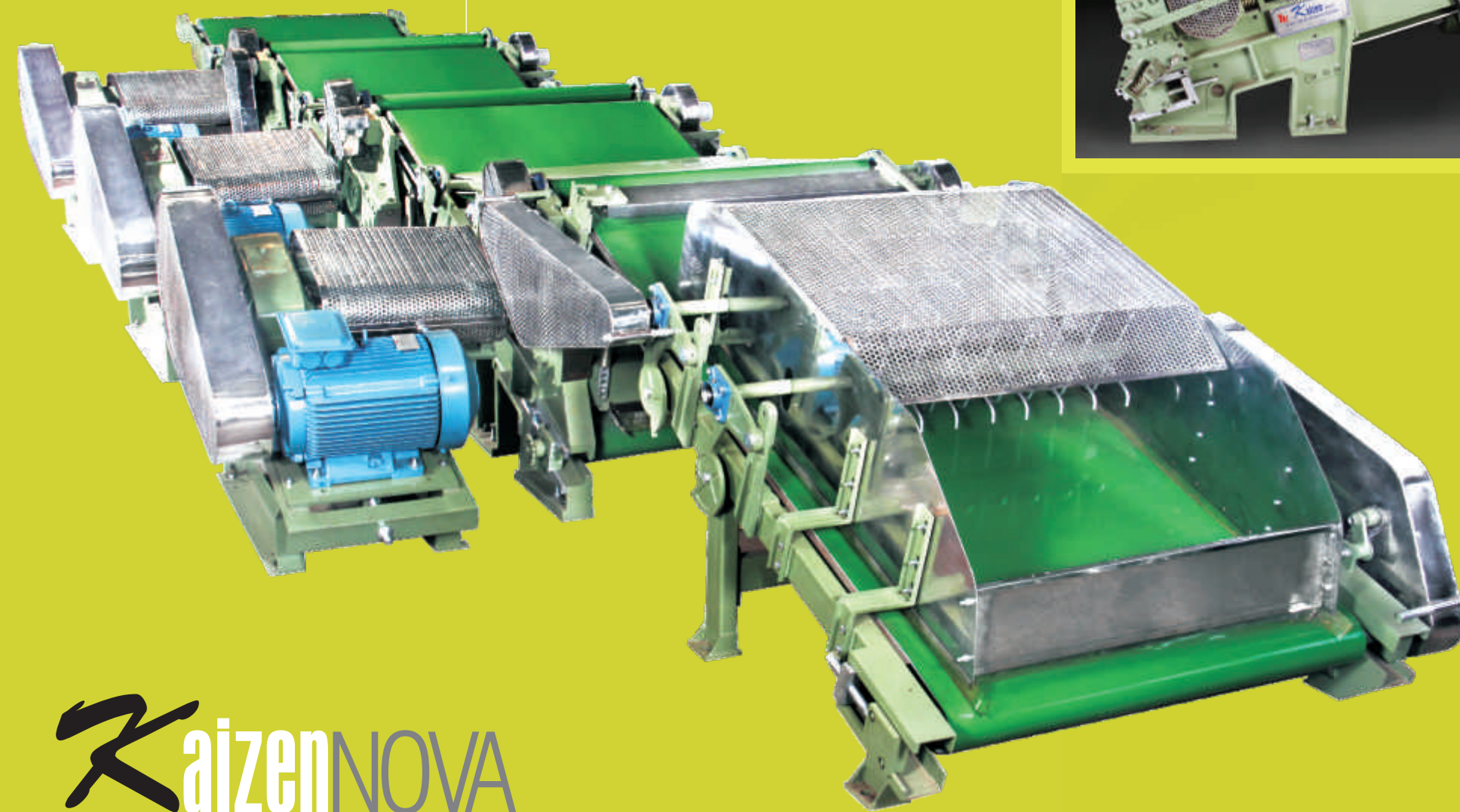
KaizenNOVA

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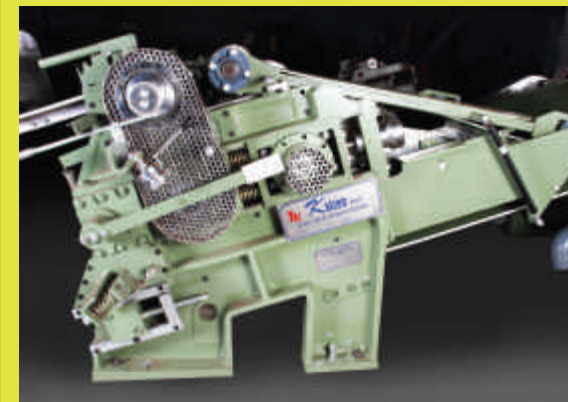
"Continuous improvement", the secret behind Japan's success story and a well entrenched international concept, is now a reality at TIGL with the Kaizen Nova CTC machine. Conceptualised and designed with one underlying objective-quality, the **KaizenNova** is a culmination of the highest standards of engineering, performance and most importantly, a commitment towards ensuring a high quality end product-TEA.

Design & Construction

- **KaizenNova** is designed with inclined side plates, resulting in better cut, spill-proof operation and, reduced overall length.
- Instant Auto-Dejamming system saves the rollers from damage by any foreign material.
- Auto tripping arrangement stops the motor in case the Auto-Dejamming mechanism is triggered.
- Single knob fine cut system provides very close meshing of rollers by simply turning a lever-helps in very accurate adjustment to the type of cut desired.
- Bolt-free Cassette type Housings are uniquely designed on the principle of Channel Dovetail system and these are self gripping to the side plates.



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Unique Cutting Unit Cover

KaizenNova introduces a new feature to the CTC machine – an inclined moving cutting unit cover with pneumatic springs for easy lifting.

KaizenNova incorporates a non-stick self-cleaning belt which moves slowly over the rollers acting as a cutting unit cover as well.

- Eliminates lump formation.
- Avoids over fermentation of accumulated tea.
- Ensures uniform cutting since erratic load due to lump discharge is avoided.
- Leads to more efficient scraping.

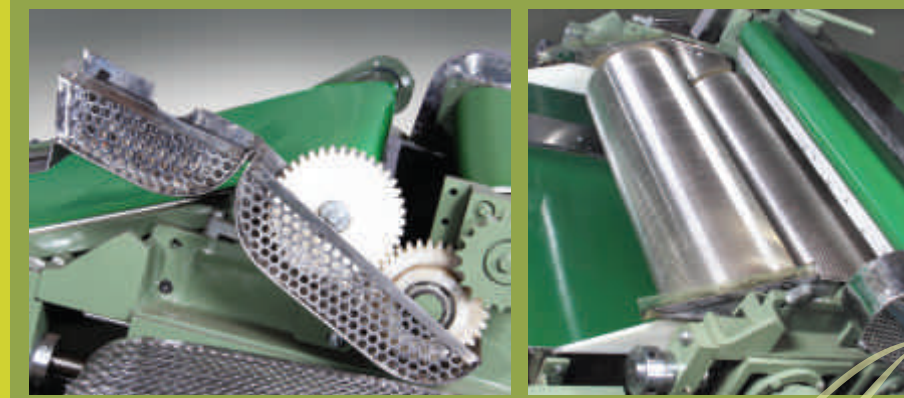
Unique Drive System for Moving Cover

A set of self lubricating gears provides continuous movement of the Moving Cover belt. The moving cover can be easily lifted for operational reasons.

Self Tracking PVC Conveyor Belts

Kaizen Nova comes with special European PVC Belts with ribbed guides on both sides to eliminate belt run off. The advantages are:

- A perfect surface - easy to scrape and clean.
- Perfect belt tracking.
- Reduced spillage.



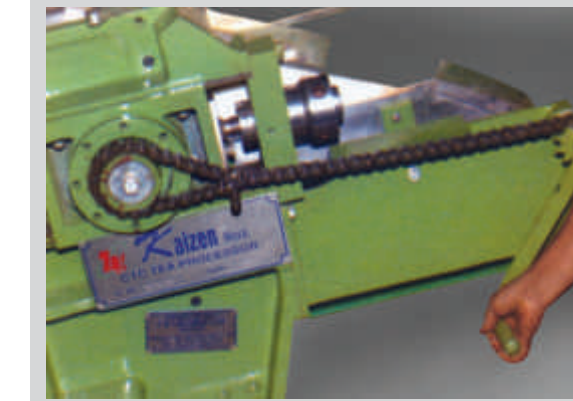
Operational hygiene

Ensures bacteria free operating conditions through:

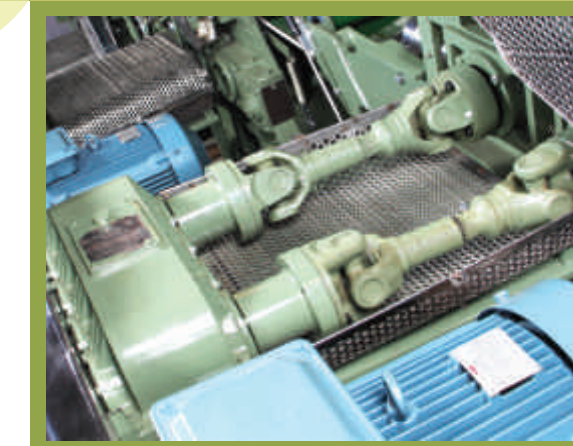
- PVC conveyor belts.
- Frameless conveyors.
- Minimum spillage.

Reduced spillage

- Reduced slope of conveyors, no ball formation and roll back.
- Inclined side plates and guards for effective spill proofing.
- Full length skid plates to prevent leaf entry inside conveyor belts.
- Self tracking conveyor belt to prevent side spillage.



Mobile Crane (Optional)



Heavy duty construction

- More rigidity and vibration free operation.
- Enables interchangeability of fittings.

Lower machine height

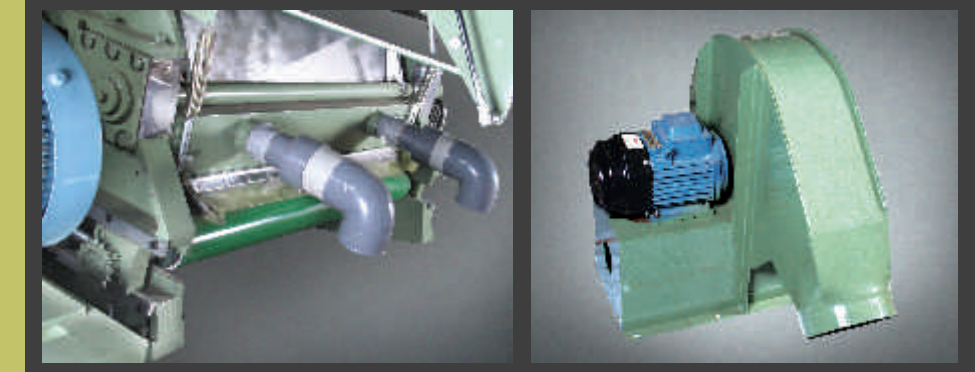
- Provides better access for maintenance.
- Easier roller setting and mesh adjustment.

Bearing sleeves

- Hardened and ground bearing sleeves are provided on the mandrel bearing journals to ensure minimum damage to bearings.
- The sleeves can be easily replaced while the bearings remain intact.

Fast Roller Removal

- Unique roller withdrawal mechanism makes removal of the roller convenient and quick.
- The design eliminates top arm removal during roller change.



Double Entry Air Cooling Arrangement

Cold air introduced from behind the rollers at two entry point to reduce leaf temperature, thereby improving the quality of liquor. The step down round ductings are provided for uniform air pressure in all cutting units.

Superior Gear Box

KaizenNova gear boxes are manufactured at our own workshop which is equipped with high precision Gear cutting and Grinding machines. For long, trouble free operations, the **KaizenNova** Gear Boxes are equipped with:

- Induction hardened shafts and gears.
- Heavier bearings.
- THE GEAR BOXES COME WITH A 5-YEAR IRON-CLAD WARRANTY.
- Precision machined gears & pinions for the ideal mesh, for better cut and longer life.

Chain and Sprocket Drive for Conveyors

- Reduced maintenance costs.
- Positive drive - no belt slippage problems.