

DOGETECH

DT9 / DT9A

Draw Frame / Autoleveller Draw Frame

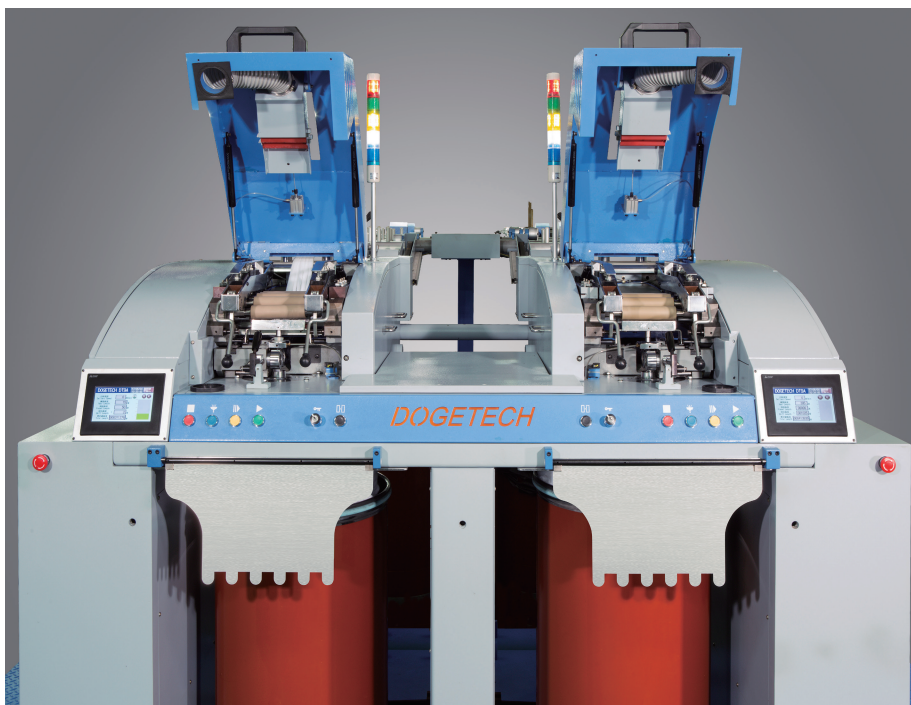


***We are Twins
But Independent***

Individual Draft System

兩眼完全獨立傳動，可依需求左右眼分別設定不同的隔距，牽伸比，運轉速度，讓生產調配更具彈性，兼具少量多樣快速改紡的便利性，以及大量產能需求的生產線。

Individual drive system for each delivery, according to your requirements, two deliveries could run under different roller gauge, draft setting and speed at the same time, it makes production management more flexible, suitable for both small-volume large-variety production as well as a large capacity of the production line.



傳動系統使用齒型皮帶及多溝式皮帶，傳動效率高。運轉速度以變頻控制，由人機介面/HMI可直接快速設定，機械速度每眼最高可達1000M/Min，可依不同原料和品質需求，調整適合的運轉速度，彈性調配產量需求，首創可選擇配置的5上4下或4上3下牽伸系統，兩眼皆可依需求自行更換使用，特殊滑塊設計，提供更小距離的羅拉隔距設定，適用不同的短纖長度，壓力臂之壓錠負載，可依原料特性設定所需的彈簧壓力。

The transmission system driven by timing belts and ribbed belts, it enhances transmission efficiency. The running speed is controlled by an inverter, through a HMI user can adjust running speed rapidly. The mechanical speed is up to 1000 M/Min for each delivery, according to various fibers and quality requirements to run machine at suitable speed, flexible management as per production demand. Originated configurable draft system, 5 over 4 or 4 over 3 is available for each delivery, both of which can be replaced on demand. The special designed roller sliders, allows closer roller gauges setting for various staple fibers. The loads of plungers of the top arm are adjustable according to various fiber characteristics.



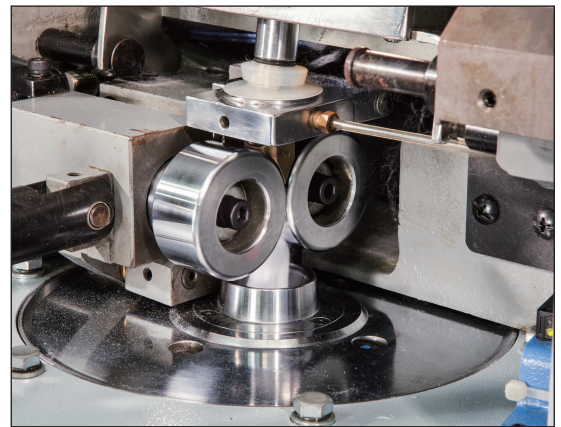
Operation Speed

Material		Actual Speed (M/min)							
		350	400	500	600	700	800	900	950
Cotton 100%	Combed /CM	[Progressive bar from 350 to 600]							
	Carded /CD	[Progressive bar from 350 to 950]							
Polyester /CM Cotton Blended		[Progressive bar from 350 to 550]							
Polyester /CD Cotton Blended		[Progressive bar from 350 to 750]							
Polyester 100%		[Progressive bar from 350 to 700]							
Viscose 100%		[Progressive bar from 350 to 750]							

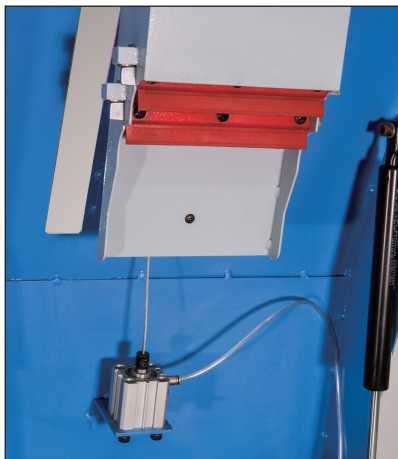
Note: The operation speed depends on the material, spinning condition, required quality level and other parameter

氣壓式輔助穿棉裝置，有效提升穿棉速度，進一步提高機台運轉效率。

Pneumatic Trumpet Sliver Insertion Auxiliary, it helps worker inserting sliver into the trumpet easily, furthermore enhances machine running efficiency.



Intermittent Cleaning



上吸風嘴配合上羅拉位置搭配間歇移動的清潔片，有效移除皮軛上的沉積物，保持皮軛清潔，降低牽伸區纏棉機率，提升高效產能。

Top suction lips equipped with rubber cleaning sheets, they are intermittent raising to remove dirt from top rollers, it reduces the formation of deposits on the top rollers, keeps top rollers clean and lessens the probability of lapping, increases the productivity.

Independent Suction System

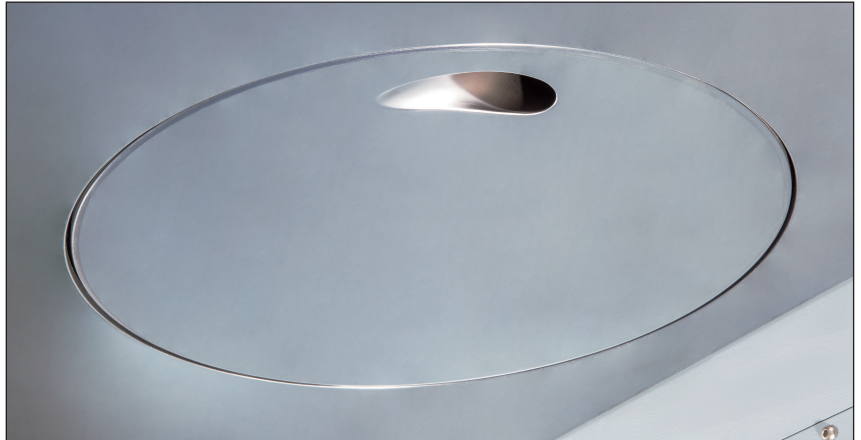
兩眼完全獨立的風箱，每次換桶時自動剝除濾網上棉塵，有效保持吸塵能力，確保輸出棉條及後道工程品質及產量的穩定性。

Independent suction box for each delivery, when can changer activated the filter sieve will be cleaned simultaneously to strip the dust. This device keeps suction working effectively and ensures output sliver quality and the running properties in the subsequent process.



Innovative Coiler Structure

創新的圈條盤設計，螺旋不銹鋼棉條管與圈條盤面一體成型，棉條所經表面皆為光滑不鏽鋼材質，盤面經特殊硬化處理，比起一般以膠合固定管道與盤面的方式更具耐磨性，有效延長使用壽命，減少毛羽及意外牽伸，確保棉條成形品質。



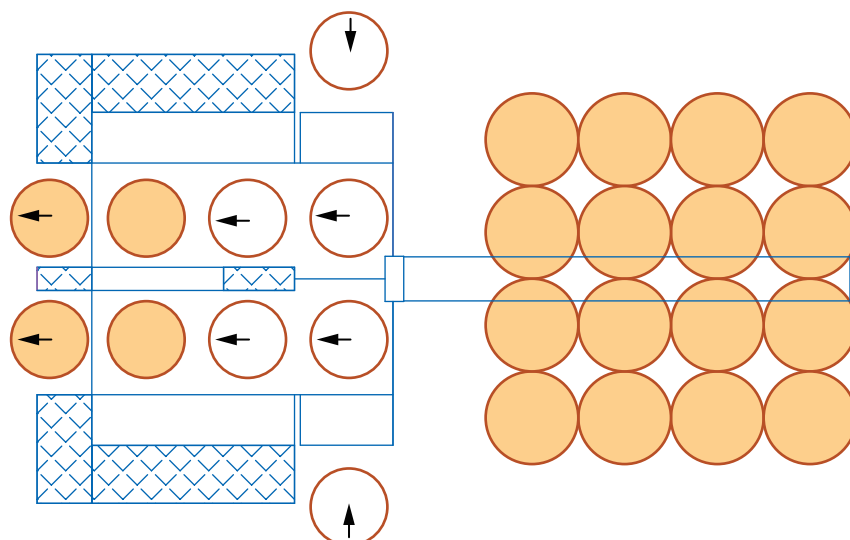
Innovative coiler design, the spiral tube and coiler plate are stainless integrated forming. All surfaces the sliver touched are smooth stainless

material only, the plate surface with special hardening treatment. It reduces hairiness and irregular draft occurred and ensures good forming quality. More wear-resisting and longer durable life compared to our competitor who used plastic cement to connect the tube and coiler plate.

Creative Auto Can Changer

創新的專利換筒方式，結構簡單，適用於各式輪高的棉條桶，兩眼獨力驅動的直線式換桶系統，較前方迴轉型換桶方式，可大幅減少機台佔地空間，並提升機台運轉效率。

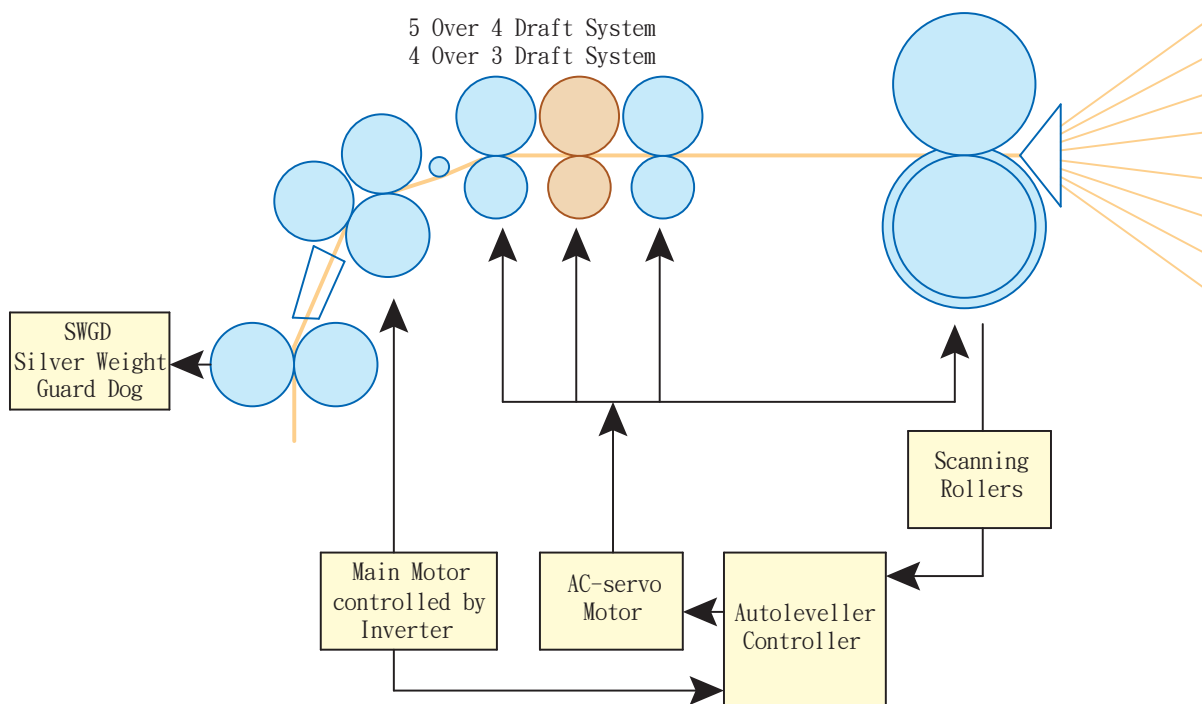
Creative and Patented Auto Can Changer, with simple structure, suitable for various sliver cans with/without casters. Independent linear can changer system significantly reduces the space occupied by the machine and enhances the efficiency of the operation of the machine, compared to the front rotary can changer.



Trustworthy Levelling Performance

兩眼個別獨立的勻整系統，單獨的電腦及電路系統控制，由個別的顯示螢幕操作設定，可一眼做為頭道，另一眼做為末道，使生產調度更具彈性。

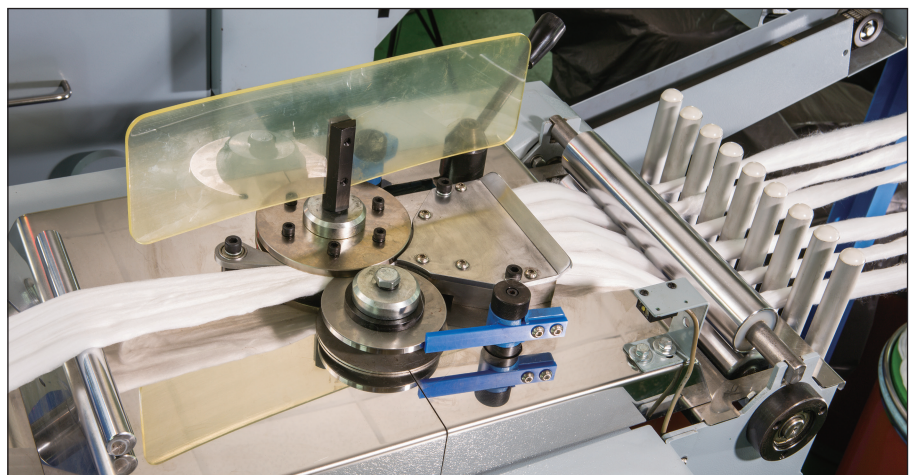
Independent Autoleveller system for each delivery. each Autoleveller system controlled by an individual computer and circuit system, operated through individual panel. One delivery can run as Breaker, another for Finisher, This enables production management more flexible.



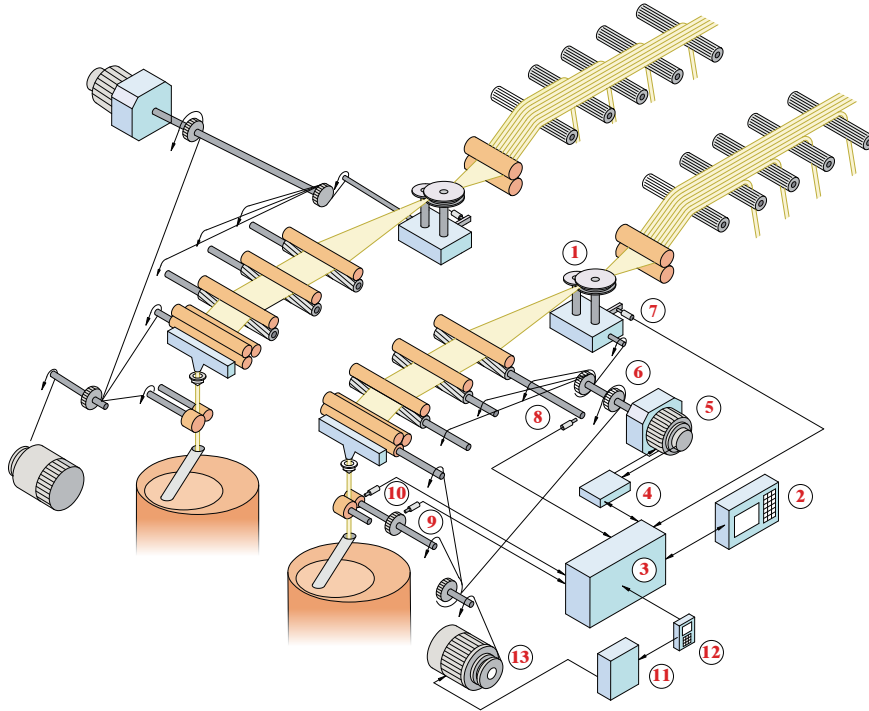
Sensitive T/G Scanning Rollers

精密溝槽式偵測羅拉，確保與棉束接觸點的靈敏度，提升更精確的動態勻整效果。即使 $\pm 25\%$ 內的喂入棉條重量偏差，皆可藉由精密的勻整功能，搭配輸出重量監控，獲得滿意的品質，確保後道工程的穩定度。

The precision T/G scanning rollers ensures the sensitivity of the contact with the feed-in sliver bundle. Even within $\pm 25\%$ of sliver weight deviation, The precision Auto Levelling function, with the Sliver Weight Guard Dog (SWGD), accesses satisfactory quality and ensures the stability of the next process.

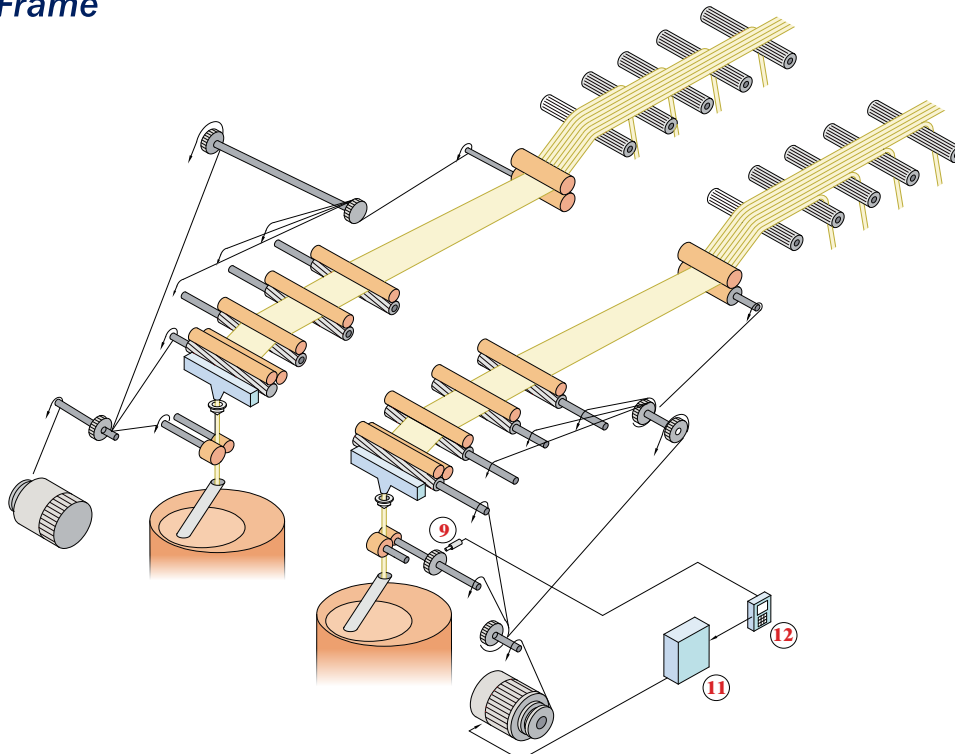


DT9A Auto Leveller Draw Frame



1. T/G Scanning Rollers	2. Monitor & Keyboard	3. Control Unit
4. Servo Driver	5. Servo Motor	6. Differential Gear Box
7. Feed-in Weight Sensor	8. Speed Sensor	9. Speed Sensor
10. Delivery Weight Sensor	11. Invertor	12. PLC / HMI
13. Main Motor		

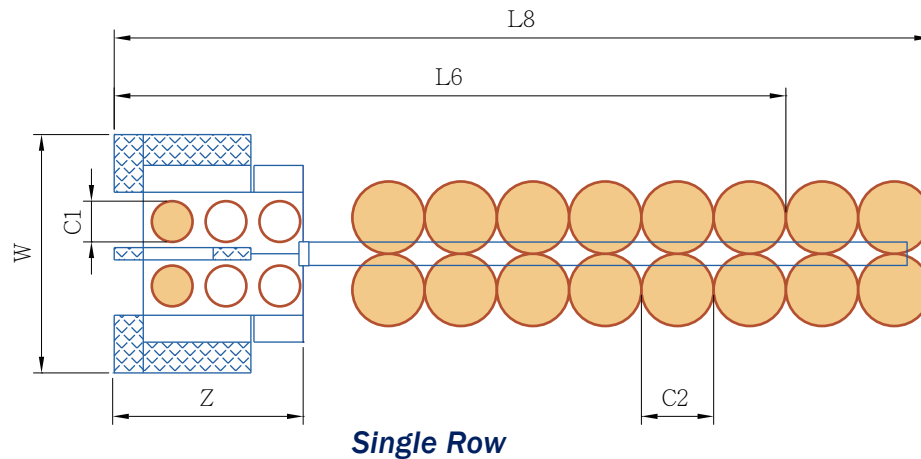
DT9 Draw Frame



Low Space Demand

本系列提供無勻整裝置及搭載勻整裝置的併條機，兩種機型占地空間均相同，客戶可依產線需求選擇機台配置，如搭配單列式紗架，喂入棉條桶徑最大可達1016mm (40")，輸出桶徑由305mm(12")至610mm (24")可供選擇。

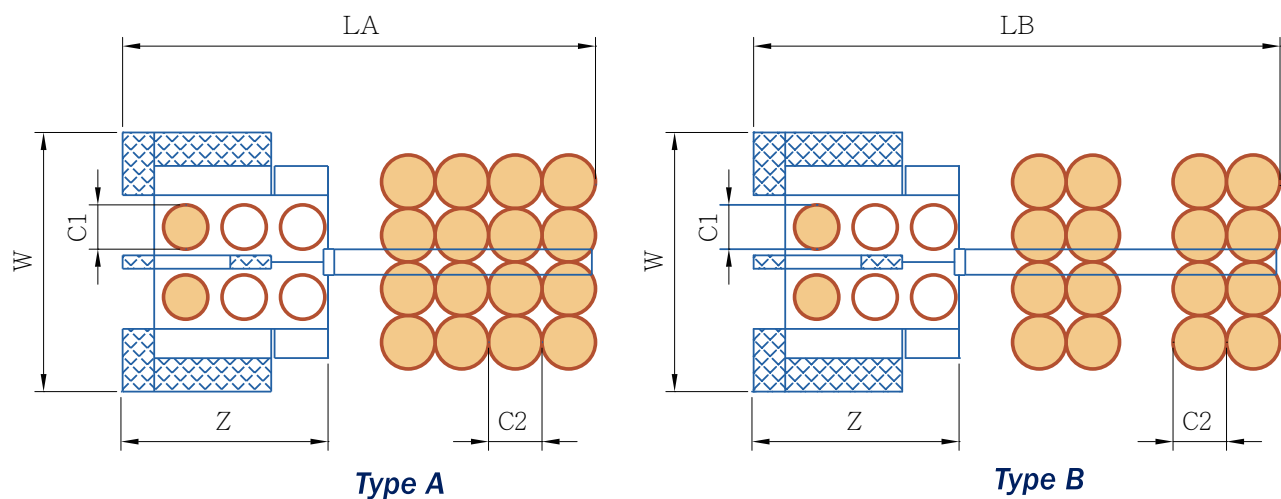
This series provides non-Autoleveller draw frame DT9 and Autoleveller draw frame DT9A, both models have the same space, customers can choose according to production line machine layout, for single-row feed creel, the largest input sliver can diameter is up to 1016mm (40 "). The output sliver can diameter is available from 305mm (12") to 610mm (24 ") for choice.



Single Row Creel

C1	W	Z	C2	L6	L8
305 (12")~508 (20")	3100	2478	914 (36")	8758	10618
610 (24")	3260	2718	1016 (40")	9418	11498

Unit: mm



Type A and Type B Creel

C1	W	Z	C2	LA	LB
305 (12")~508 (20")	3100	2478	508(20") or 610(24")	5658	6298
610 (24")	3260	2718	610(24")	5658	6298

Unit: mm

Main Specifications

Model		DT9	DT9A
Autoleveller		Without	With
Sliver Weight Guard Dog (SWG D)		Without	With
Trumpet Sliver Insertion Auxiliary		With	
No. of Delivery		One Head with Two individual Deliveries	
Fiber of Length		22 ~ 80 mm	
Draft System		5 over 4 or 4 over 3 With Pressure Bar	
Draft Range		4.5 ~ 11	
Sliver Doublings		6 ~ 8	
Delivery Speed		Up to 1000 M/min	
Compressed Air Consumption, Min. 6 bar		0.32 CBM/Hr.	
Roller Weighting		Top Arm with Adjustable Spring Pressure	
Can Changer		Linear Auto Can Changers	
Creel		Positive Creel (Standard Equipment) / Grounding Power Creel (Optional)	
Individual Sliver Breakage Device / ISBD		Optional	
Motor	Main Motor / Inverter	5.5 KW x 4P / 7.5 KW for Each Delivery	
	Can Changer Motor	0.2 KW x 4P for Each Delivery	
	Suction Motor	0.75 KW x 2P for Each Delivery	
	AC-Servo Motor	Without	1.5 KW for Each Delivery
Feed-in Can	Diameter mm (Inch)	406 (16") ~ 1016 (40")	
	Height mm (Inch)	914 (36") ~ 1270(50")	
Delivery Can	Diameter mm (Inch)	305 (12") ~ 610 (24")	
	Height mm (Inch)	914 (36") ~ 1219 (48")	
Clearer	Top Roller	Intermittent Rubber Sheet	
	Bottom Roller	Rubber Sheet	

Design and Development is a continuous process, The Specifications are subject to change without notice.

ISBD/Optional



Grounding Power Creel / Optional



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