

combing

TECHNICAL DATA



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Equipment and options

Truetzschler Superlap TSL 12

General	Good access to all maintenance and cleaning points	•
	Safety panels with central safety system	•
	Central, flow-optimised suction with negative pressure monitoring (above and below floor)	•
	Individual adjustment of the lap pressure via the lap build-up	•
	3 pressure calender with individually adjustable pneumatic load	•
	Large-area filter TD-FB with negative pressure monitoring	○
Drives	Modern, energy-saving drives with robust Truetzschler electronics	•
	Individual drives for infinitely variable adjustment of lap count, main draft and lap tensions	•
Electronics	Colour touchscreen for efficient operation, maintenance and service	•
	USB port	•
	Use of dynamic Truetzschler Computing Unit, only one update for all machine components	•
	Maintenance management via touchscreen	•
	Energy measuring device for online energy monitoring	•
	Interface for data transmission to data acquisition systems My Mill and My Production	•
Creel	Two-row feed creel with intelligent individual sliver monitoring via SMART sensors (600 mm cans)	•
	Creel version for 1000 mm cans or JUMBO CANS	○
Drafting system	3-over-3 drafting system with monitoring device and sliver guide elements	•
	Self-adjusting lap monitoring of top rolls	•
	Durable cleaning bar for gentle cleaning of the top rolls	•
	Integrated, flow-optimized suction of the drafting system at top and bottom rolls	•
	Quick relief during standstill or lap formation	•
	Lifetime lubricated top roll bearing for low heat generation and reduced lap formation	•
	2 table calender units for preparation of the batt	•
Pneumatic load of top rolls individually, infinitely variable	•	

• = Series ○ = Option

Technical data

Truetzschler Superlap TSL 12

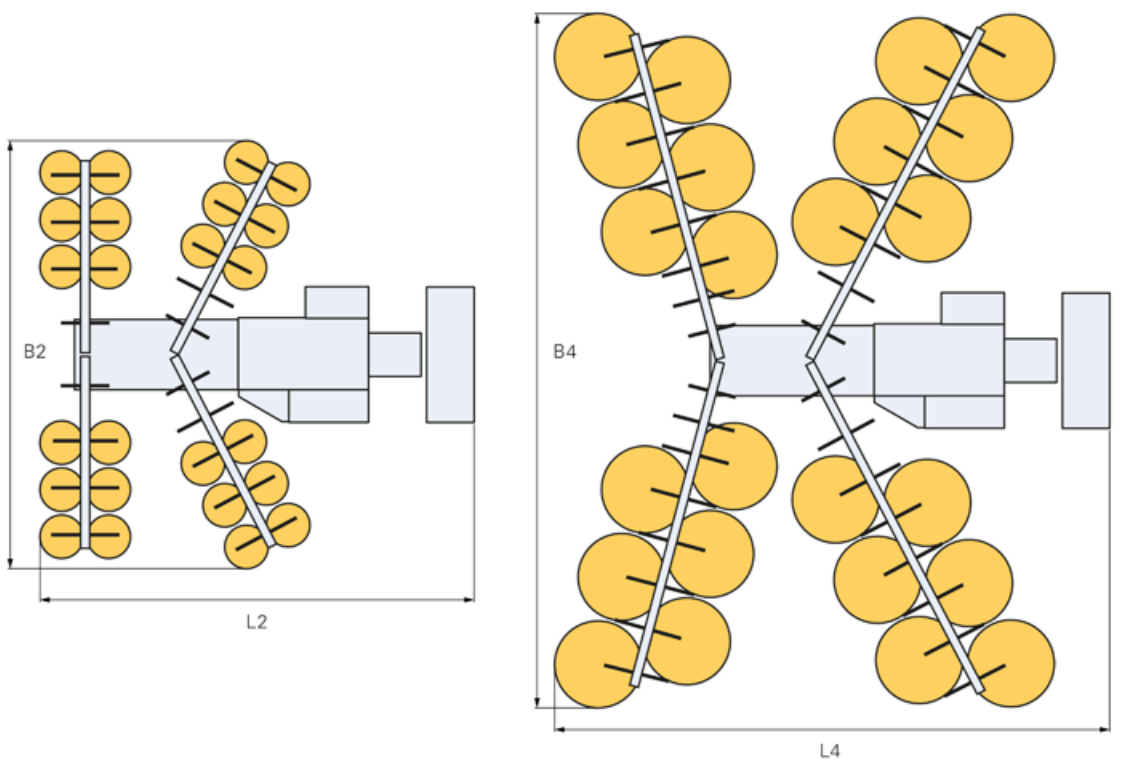
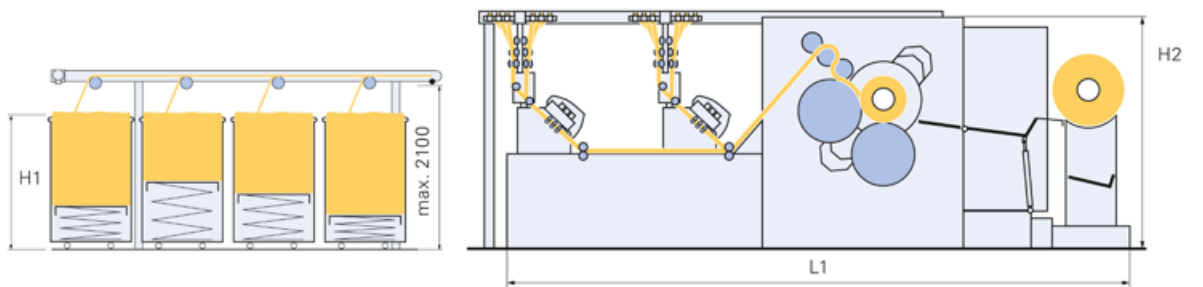
Sliver coiling system	Maximum delivery speed	m/min	180
	Can diameter	mm	600/1,000/1,200
	Can height	mm	1,075 - 1525
	Continuous production	kg/h	518
Energy	Air volume of suction	m ³ /h	2,800
	Negative pressure of suction	-Pa	-800
	Installed power of drafting system table	kW	3.45
	Installed power of lap head	kW	16.05
	Installed power of filter box	kW	2.5
	Average continuous electric power consumption	kW	7.3
	Compressed air requirement	NI/h at 7 bar	4,200
General	Material: Fibers	mm	max. 60
	Draft	fold	1.2 – 3
Calender / Drafting system	Lap weight	kg/unit	25 (net)
	Material feed / lap count	ktex	60 – 80
	Sliver weight	ktex	4 - 5
	Lap width	mm	300
	Lap tube diameter	mm	200
	Lap length	m	300

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Truetzschler Superlap TSL 12

L1 mm	5,513
H1 mm	1,075 - 1,525
H2 mm	2,070

	Creel cans		
	Ø 600 mm	Ø 1,000 mm	Ø 1,200 mm
L2 / L4 mm	5,994	6,319	7,662
B2 / B4 mm	5,909	9,027	9,586





Equipment and options

Truetzschler Comber TCO 12

Coiling	Coiler plate with HYDRO POLISHED TUBE prevents deposits	•
	Automatic sliver separation unit during can changing	•
	Automatic rotary can changer	•
	Additional empty can position on can changer for 600 mm cans	•
	Above floor and below floor can changer for 1000 mm cans or JUMBO CANS	o
General	Integrated quality monitoring DISC MONITOR (sliver count, sliver evenness, integrated spectrogram analysis)	•
	Technology package standard	Alternative equipment
	Technology package fine count	equipment
	Lap tubes TCO-LT	•
	Good access to all maintenance and cleaning points	•
	Safety panels with central safety system	•
	Central, flow-optimised suction with negative pressure monitoring (above and below floor)	•
Drives	Modern, energy-saving drives with robust Truetzschler electronics	•
	Individual drives for infinitely variable adjustment of sliver count, draft and nips (nips/min)	•
	Individual can plate drive for optimized sliver coiling	•
	Individual drives for feed and delivery roll of the drafting system, adjustment of the draft via control system	•
	DUAL DRIVE – double-sided drive concept for combing elements	•
	2-TWIN DRIVE – low torsion individual drive technology for the detaching rolls	•
Electronics	Large colour touchscreen for efficient operation, maintenance and service	•
	USB port	•
	Use of dynamic Truetzschler Computing Unit, only one update for all machine components	•
	Maintenance management via touchscreen	•
	Energy measuring device for online energy monitoring	•
Interface for data transmission to data acquisition systems My Mill and My Production	•	
Combing station	Reserve table TCO-RT for the lap transport carriage TCO-LC1	•
	Reserve table TCO-RT incl. empty tube storage for automatic lap transport system LTS	o
	Feeding for laps with 200 mm diameter and 300 mm width	•
	Round and fixed combs from Städtler und Uhl	•
	PIECING OPTIMIZER with timing and curve function for optimum tear-off curve and piecing time	•
	Equipment for forward and reverse feeding (feed amounts 4.3 / 4.7 / 5.2 / 5.5 / 5.9 mm)	•
	Semi-automatic lap feeder TCO-LF for the lap transport carriage TCO-LC2	o
	Automatic lubrication system TCO-AGA	o
Round and fixed combs from Graf	o	
Drafting system	4-over-3 drafting system with pressure bar and short sliver guidance in the can	•
	Gentle sliver deflection for process-safe sliver formation and reduced lap formation tendency	•
	Self-adjusting lap monitoring of top rolls	•
	Durable cleaning bar for top rolls for gentle cleaning	•
	Integrated, flow-optimized suction of the drafting system at top and bottom rolls	•
	Quick relief during standstill or lap formation	•
	Process-safe, pneumatic, automatic web threading	•
	Lifetime lubricated top roll bearing for low heat generation and reduced lap formation	•
	Pneumatic load of top rolls individually, infinitely variable	•
	COUNT CONTROL – Levelling system for perfect sliver count consistency	•

• = Series o = Option

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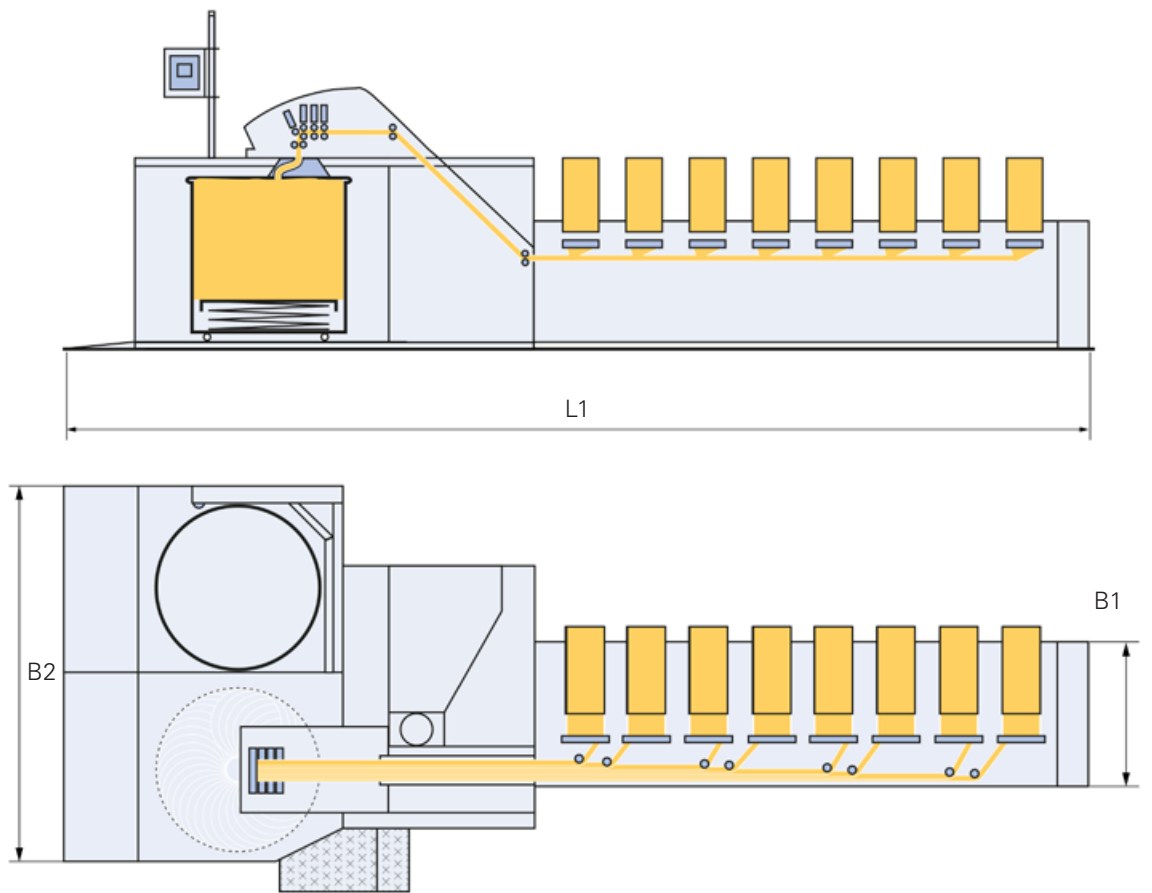
Truetzschler Comber TCO 12

Sliver coiling system	Maximum delivery speed	m/min	350
	Can diameter	mm	600/1,000/1,200
	Can height	mm	1,200
	Continuous production	kg/h	3 – 6 ktex
Energy	Air volume of suction	m ³ /h	2,800
	Negative pressure of suction	-Pa	- 430
	Average continuous electrical power consumption at 500 nips	kW	6 – 6.6
	Compressed air requirement	NI/h at 7 bar	300/360/350
General	Material: Fibers	mm	max. 60
	Draft	fold	9 - 26
Combing station	Maximum nip rate	Nips/min	550
	Production	kg/h	90
	Lap weight	kg/unit	25 (net)
	Material feed / lap count	ktex	60 - 80
	Feeding		Forward/backward
	Ratch-wheel feeding	Teeth	16, 17, 18, 19, 20, 22
	Round combs		Staedler & Uhl: 9103, 9107, 9109, 9121 Graf: 8015, 9015, 9030
	Fixed combs		Staedler & Uhl: 26, 30 Graf: C26, C30
	Noil extraction	%	8 – 25

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Truetzschler Comber TCO 12

	Output cans		
	Ø 600 mm	Ø 1,000 mm	Ø 1,200 mm
L1 mm	6,149	7,045	7,220
B1 mm	1,075		
B2 mm	1,705	2,440	2,845





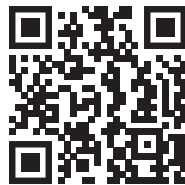
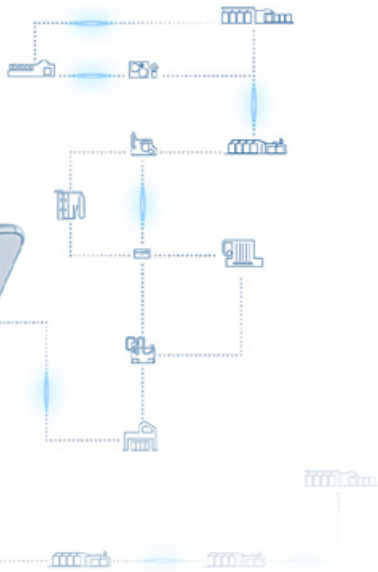


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Solutions: My Mill · My Production App · My Wires App

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