TRÜTZSCHLER SPINNING

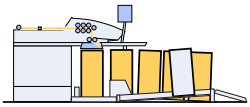
draw frame

TECHNICAL DATA

CONTENT

Technical data

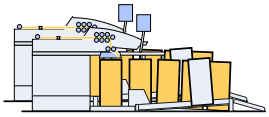
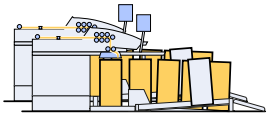
Autoleveller draw frames

			TD 10
			
Sliver coiling system	Maximum delivery speed	m/min	1,000
	Can diameter	mm	400 – 600
	Can height	mm	900 – 1,500
	Cans without ball castors		•
	Cans with ball castors		•
Energy	Air volume of suction	m³/h	840
	Negative pressure of suction	-Pa	430
	Installed draw frame power	kW	9.8
	Installed can changer power	kW	0.4
	Installed filter power	kW	0.4
	Installed power SMART CREEL	kW	0.6
	Installed power SERVO TRACK	kW	0.25
	Installed power AUTO DRAFT	kW	1.6
	Continuous power consumption electr.		
	Compressed air requirement	Nl/h	240
General	Material: Fibers up to 60 mm		•
	Material feed	ktex	12 – 50
	Draft	fold	4 – 11
	Noise level	dB(A)	84

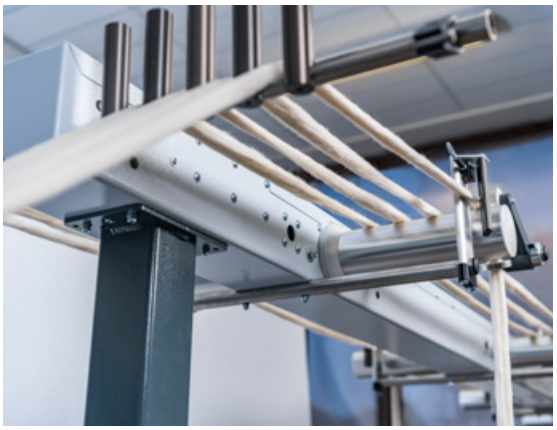
● = Series o = Option * Information per draw frame head

Colour touchscreen

DISC LEVELLER

TD 10-600	TD 10C*	TD 10-600C*
		
600	1,000	600
400 – 600	400 – 600	400 – 600
900 – 1,500	900 – 1,500	900 – 1,500
•	•	•
•	•	•
840	840	840
430	430	430
6.9	9.8	6.9
0.4	0.4	0.4
0.4	0.4	0.4
0.6	0.6	0.6
0.25	0.25	0.25
-	1.6	-
depending on application, approx. 0.020 –- 0.030 kWh/kg		
240	240	240
•	•	•
12 – 50	12 – 50	12 – 50
4 – 11	4 – 11	4 – 11
79	84	79

4-over-3 drafting system technology



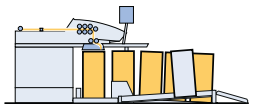
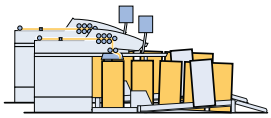
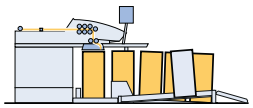
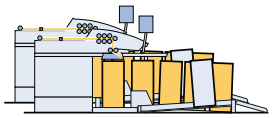
Individual sliver monitoring on SMART CREEL

Equipment and options

Autoleveller draw frame

Coiling	Coiler plate with HYDRO POLISHED TUBE prevents deposits
	Automatic sliver separation unit during can changing
	Automatic rotary can changer
	Can magazine CAN TRACK for empty cans
	Can delivery onto delivery track
	Driven can magazine SERVO TRACK for empty cans (only under floor)
	Interface full can transfer onto can transport carriage
	Can transport carriage for can diameters ∅ 400, ∅ 450, ∅ 500
	Can delivery onto floor
General	Input sensor DISC LEVELLER with maximum accuracy of measurement and quick release fastener system
	Integrated quality monitoring DISC MONITOR (sliver count, sliver evenness, integrated spectrogram analysis)
	Minimum maintenance, lubrication of bottom roller bearings only
	Good access to all maintenance and cleaning points
	Central operator platform with access to creel
	Safety panels with central safety system
	Space-saving, compact machine installation for two or more drafting heads TD 10C
	Central, flow-optimised suction with negative pressure monitoring (above and below floor)
	OPTI SET – optimal main drafting point due to self-optimization
	Large, integrated TD-FB filter with negative pressure monitoring and cleaning intervals of up to 24h
Drives	Modern, energy-saving drives with robust Truetzschler electronics
	Individual drives for infinitely variable setting of sliver count, delivery speed and draft
	Individual can plate drive to optimise sliver coiling
	Optimization package TD-OS – Separately driven servo drive for middle drafting system cylinder – Software package AUTO DRAFT for self optimization of draf
	Digital servo drives for highly dynamic SERVO DRAFT levelling
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
	Visualisation of differentiated machine states via T-LED remote display
	Energy measuring device for online energy monitoring
	Through hole technology to extend the service life of the electronic power components
	Interface for data transmission to mill monitoring system “My Mill”
Creel	Separately driven SMART CREEL TD-SC servo creel with intelligent individual sliver monitoring
	Single row creel installation SMART CREEL for TD 10 C
Drafting system	4-over-3 drafting system with pressure bar and sliver guide elements
	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 rollers for gentle cleaning
	Integrated, flow-optimised 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 roller bearing for low heat generation and reduced lap formation
	Individual, infinitely variable pneumatic loading of the top rollers via touchscreen

● = Series ○ = Option

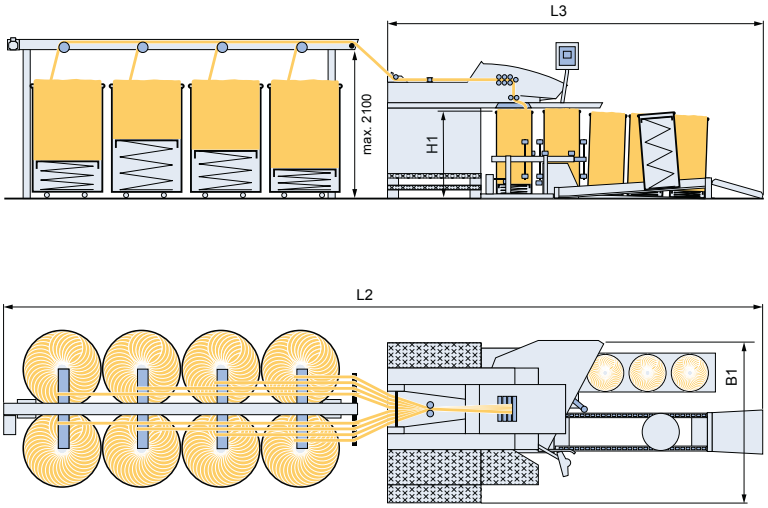
TD 10	TD 10C	TD 10-600	TD 10-600C
			
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
–	●	–	●
●	●	●	●
–	●	–	●
●	●	●	●
●	●	●	●
○	○	○	○
●	●	●	●
●	●	●	●
●	●	●	●
○	○	–	–
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
–	○	–	○
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●

Autoleveller Draw Frames TD 10

	Creel cans	
	Ø 1,000 mm	**Ø 1,200 mm**
L2 mm	9,891*	10,689*
L3 mm	5,076*	

*Output can ∅ 600 mm

	Can height output mm	Creel cans	
		Ø 1,000 mm	**Ø 1,200 mm**
B1 mm	900 – 1,079	2,100	2,480
	1,080 – 1,270	2,325	2,505
	1,271 – 1,370	2,380	2,505
	1,371 – 1,525	2,610	2,735
H1 mm		900 – 1,525	

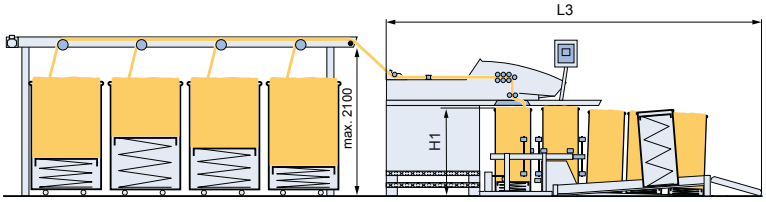


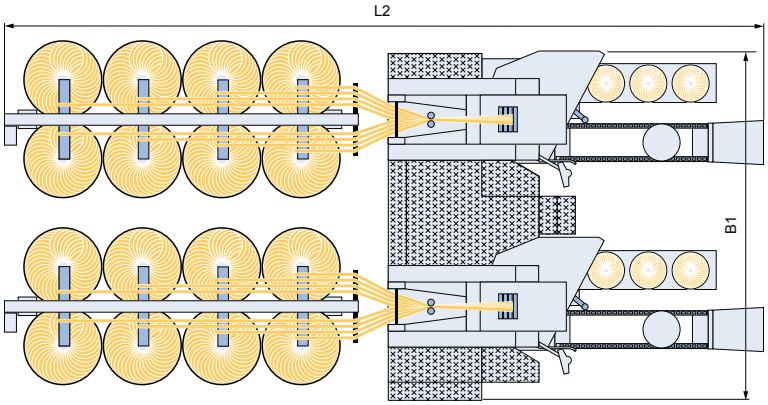
Autoleveller Draw Frames TD 10C and TD 10-600C

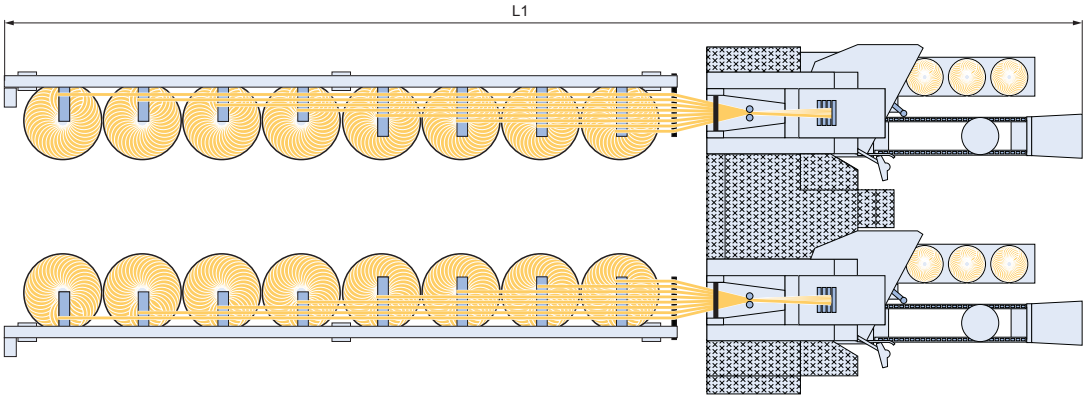
	Creel cans	
	Ø 1,000 mm	**Ø 1,200 mm**
L1 1-row mm	14,091*	15,691*
L2 2-rows mm	9,891*	10,689*
L3 mm	5,076*	

*Output can ∅ 600 mm

Can height output mm		Creel cans	
		Ø 1,000 mm	**Ø 1,200 mm**
B1 mm	900 – 1,270	4,620	5,400
	1,271 – 1,525	4,675	5,400
H1 mm		900 – 1,525	





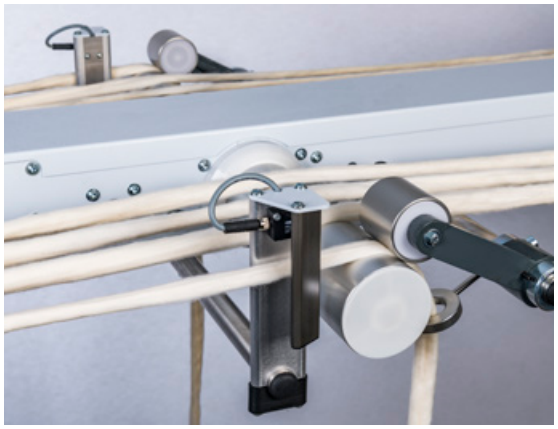


Technical data

Breaker draw frames

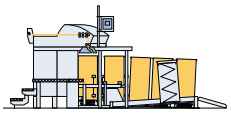
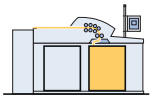
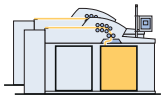
Coiling	Maximum delivery speed	m/min
	Can diameter	mm
	Can height	mm
	Cans without ball castors	
	Cans with ball castors	
Energy	Air volume of suction	m³/h
	Negative pressure of suction	-Pa
	Installed draw frame power	kW
	Installed can changer power	kW
	Installed filter power	kW
	Installed power SMART CREEL	kW
	Installed power SERVO CREEL	kW
	Installed power SERVO TRACK	kW
	Continuous power consumption electr.	
	Compressed air requirement	Nl/h
General	Material: Fibers up to 60 mm	
	Material feed	ktex
	Draft	fold
	Noise level	dB(A)

● = Series ○ = Option



SMART sensors for individual sliver monitoring

Intelligent operator concept of Breaker Draw Frame TD 9T

TD 7	TD 9	TD 9T
		
1,000	1,000	1,000
600	1,000 + 1,200	1,000 + 1,200
1,050 – 1,500	1,075 – 1,500	1,075 – 1,500
•	–	–
•	•	•
600	600	1,200
400	450	500
5.0	5.0	10
0.5	0.25	0.5
0.9	0.9	0.9
–	0.6	1.2
0.6	–	–
0.3	–	–
depending on application, approx. 0.020 –- 0.030 kWh/kg		
240	600	1,200
•	•	•
12 – 50	12 – 50	12 – 50
4 – 10	4 – 10	4 – 10
84	84	84

Operation via touchscreen

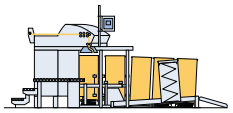
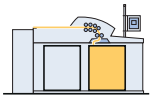
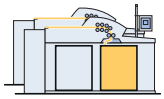
Truetzschler remote display T-LED

Equipment and options

Breaker draw frames

Coiling	Coiler plate with HYDRO POLISHED TUBE prevents deposits
	Automatic sliver separation unit during can changing
	Automatic rotary can changer
	Can magazine CAN TRACK for empty cans
	Can delivery onto delivery track
	Driven can magazine SERVO TRACK for empty cans (only under floor)
	Can delivery onto floor
	Linear can changer for 1,000 mm diameter
	Linear can changer for 1,200 mm diameter
General	Minimum maintenance, lubrication of bottom roller bearings only
	Good access to all maintenance and cleaning points
	Central operator platform with access to creel
	Safety panels with central safety system
	Central, flow-optimised suction with negative pressure monitoring (above and below floor)
	TWIN version without efficiency coupling for highest production rates
	Large, integrated TD-FB filter with negative pressure monitoring and cleaning intervals of up to 24h
Drives	Modern, energy-saving drives with robust Truetzschler electronics
	Individual can plate drive to optimise sliver coiling
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
	Visualisation of differentiated machine states via T-LED remote display
	Energy measuring device for online energy monitoring
	Interface for data transmission to mill monitoring system "My Mill"
Creel	Two-row feed creel with intelligent individual sliver monitoring via SMART sensors
	One-row creel installation SMART CREEL
	Separately driven SMART CREEL TD-SC servo creel with intelligent individual sliver monitoring
Drafting system	4-over-3 drafting system with pressure bar and sliver guide elements
	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 rollers for gentle cleaning
	Integrated, flow-optimised 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 roller bearing for low heat generation and reduced lap formation
	Individual, infinitely variable pneumatic loading of the top rollers via touchscreen

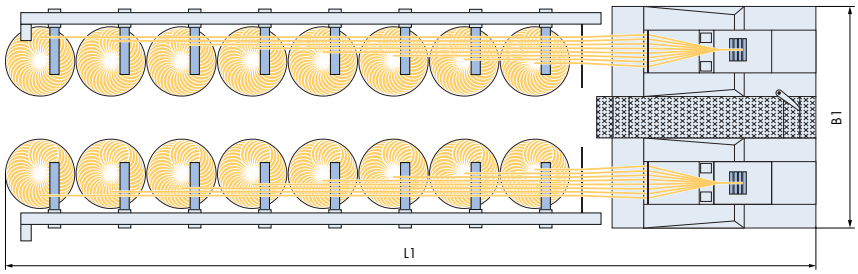
● = Series ○ = Option

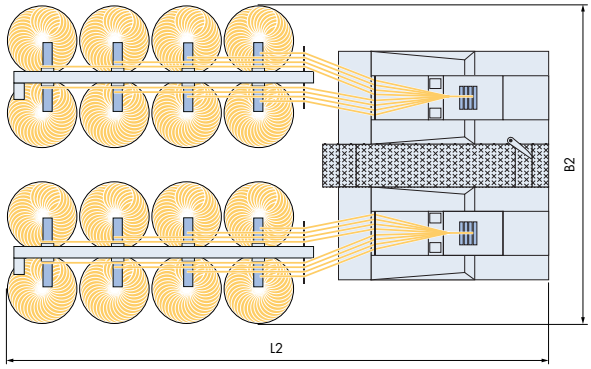
TD 7	TD 9	TD 9T
		
●	●	●
●	●	●
●	–	–
●	–	–
●	–	–
○	–	–
○	–	–
–	●	●
–	○	○
–	●	●
●	●	●
–	●	●
●	●	●
●	●	●
–	–	●
–	○	○
●	●	●
●	●	●
●	●	●
–	●	●
●	●	●
●	●	●
–	●	●
–	●	●
○	○	○
●	●	●
–	○	○
○	○	○
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●

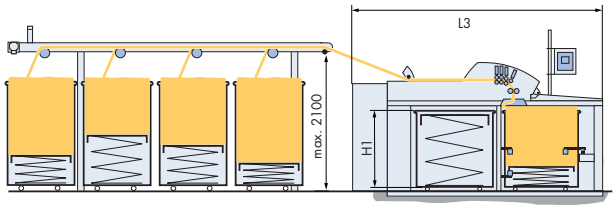
TWIN Draw Frame TD 9T

	Creel cans	
	Ø 1,000 mm	**Ø 1,200 mm**
L1 1-row mm	12,264	14,279
L2 2-rows mm	8,064	9,279

	Output cans	
	Ø 1,000 mm	**Ø 1,200 mm**
L3 mm	2,990	3,405
B1 mm	3,300	3,700
B2 mm	4,600	5,400
H1 mm	1,075 – 1,500	



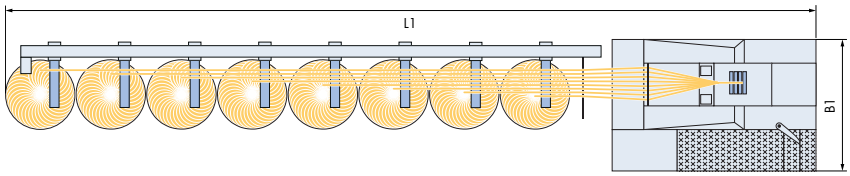


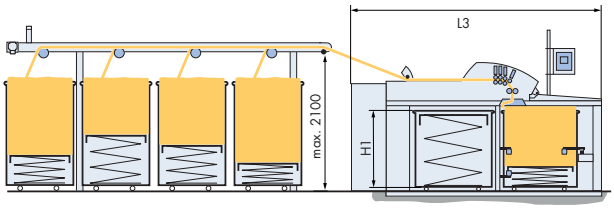


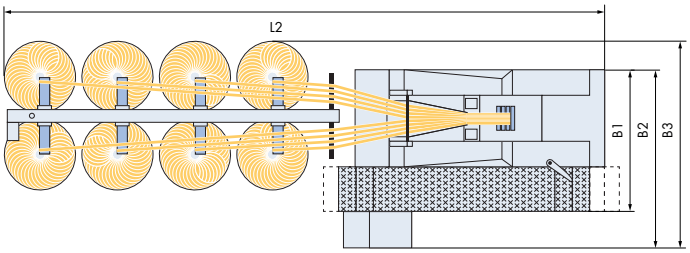
Breaker Draw Frame TD 9

	Creel cans	
	Ø 1,000 mm	**Ø 1,200 mm**
L1 1-row mm	12,264	14,279
L2 2-rows mm	8,064	9,279

	Output cans	
	Ø 1,000 mm	**Ø 1,200 mm**
L3 mm	2,990	3,405
B1 – Central suction mm	1,950	2,150
B2 – Filter box mm	2,455	2,655
B3 mm	2,820	3,020
H1 mm	1,075 – 1,500	



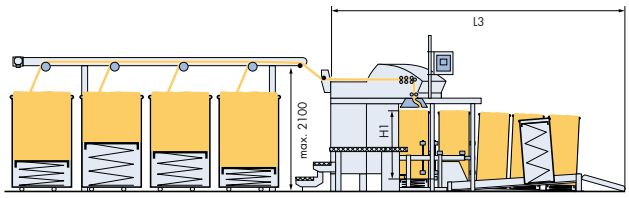


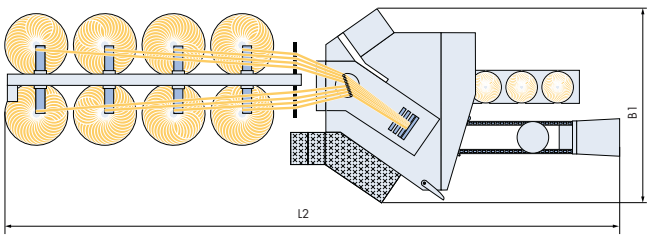


Breaker Draw Frame TD 7

	Creel cans
	Ø 600 mm
L2 2-rows mm	8,150
L3 mm	4,633

	Can delivery
	Ø 600 mm
B1 mm	3,100
H1 mm	1,050 – 1,500





Technical data

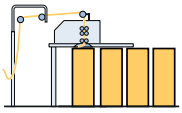
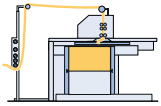
Integrated Draw Frame IDF 2

Coiling	Maximum delivery speed	m/min
	Can diameter	mm
	Can height	mm
	Cans without ball castors	
	Cans with ball castors	
Energy	Air volume of suction	m³/h
	Negative pressure of suction	-Pa
	Installed draw frame power	kW
	Installed can changer power	kW
	Installed filter power	kW
	Installed power SMART CREEL	kW
	Installed power SERVO TRACK	kW
	Continuous power consumption	
	Compressed air requirement	Nl/h
General	Material: Fibers up to 60 mm	
	Material feed	ktex
	Draft	fold
	Noise level	dB(A)

● = Series

a) Cans 200 × 900 mm × 1,073 mm
Cans 215 × 900 mm × 1,200 mm

b) IDF VORTEX SPINNING up to 3.5-fold draft

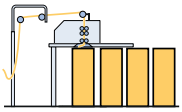
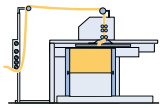
IDF 2	IDF 2R
	
700	700
400 – 600, 1,000	a)
900 – 1,525	a)
•	•
•	•
350	350
450	450
4.0	4.0
0.5	3.5
–	–
–	–
0.3	0.3
approx. 0.01 kWh/kg	approx. 0.01 kWh/kg
2,800	2,800
•	•
6 – 10	6 – 10
1 – 2 b)	1 – 2 b)
79	79

Equipment and options

IDF 2 and IDF 2R

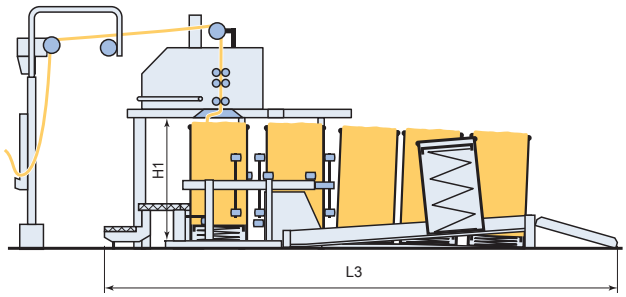
Coiling	Coiler plate with HYDRO POLISHED TUBE prevents deposits
	Automatic sliver separation unit during can changing
	Automatic rotary can changer
	Can magazine CAN TRACK for empty cans
	Can delivery onto delivery track
	Driven can magazine SERVO TRACK for empty cans (only under floor)
	Interface full can transfer onto can transport carriage
	Can transport carriage
	Can delivery onto floor
	Automatic rectangular can changer
General	Input sensor with maximum accuracy of measurement
	Integrated quality sensors (sliver count, sliver evenness, integrated spectrogram analysis)
	Minimum maintenance, lubrication of bottom roller bearings
	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 setting of sliver count, delivery speed and draft
	Individual can plate drive to optimise sliver coiling
	Digital servo drives for highly dynamic levelling
Electronics	Intuitive multitouch screen with RFID technology via card
	USB-port via card
	Use of dynamic Truetzschler Computing Unit, only one update for all machine components
	Maintenance management via touchscreen
	Visualisation of differentiated machine states via T-LED remote display
	Interface for data transmission to mill monitoring system “My Mill”
Drafting system	2-Over-2 individual sliver levelling drafting system with sliver guide elements
	Durable cleaning bar for top rollers for gentle cleaning
	Integrated, flow-optimised suction of the drafting system at top and bottom rolls
	Quick relief during standstill or lap formation
	Lifetime lubricated top roller bearing for low heat generation and reduced lap formation
	Pneumatic load of top rollers individually, infinitely variable

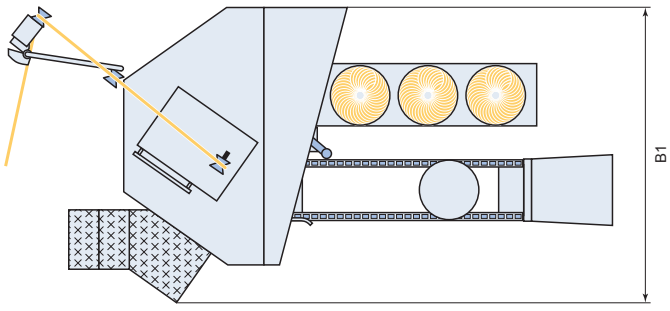
• = Series ○ = Option

IDF 2	IDF 2R
	
●	●
●	●
●	–
●	–
●	–
○	–
○	–
○	–
○	–
–	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●

Integrated Draw Frame IDF 2

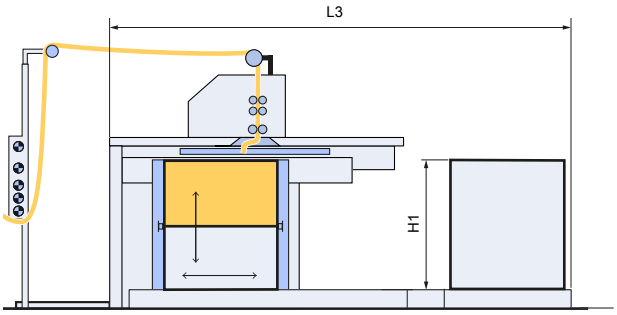
	Output cans	
	Ø 400 – 600 mm	**Ø 1,000 mm**
L3 mm	4,007 – 4,147	2,250
B1 mm	2,427	2,897
H1 mm	900 – 1,525	

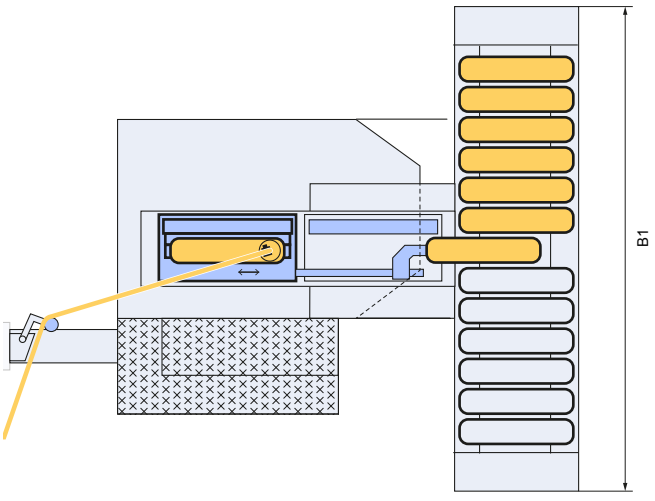




Integrated Draw Frame IDF 2R

	Output cans	
	Ø 1,000 mm	**Ø 1,200 mm**
L3 mm	3,685	3,685
B1 mm	3,843	4,163
H1 mm	1,073	1,200





VDMA Mitglied Member

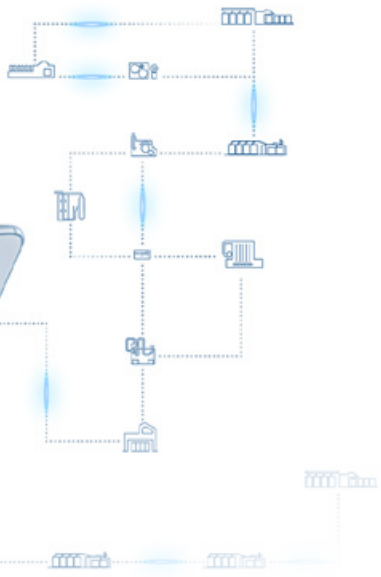
GERMAN Technology

TÜV NORD CERT GmbH DIN EN ISO 9001

BLUECOMPETENCE Alliance Member
Partner of the Engineering Industry Sustainability Initiative

www.machines-for-textiles.com/blue-competence

Trützschler GmbH & Co. KG Textilmaschinenfabrik
Postfach 410164 · 41241 Mönchengladbach, Germany · Duvenstr. 82-92 · 41199 Mönchengladbach, Germany
Telephone: +49 (0)2166 607-0 · Fax: +49 (0)2166 607-405 · e-mail: info@truetzschler.de · www.truetzschler.com



Scan the QR code to get to the download area of all brochures.

www.truetzschler.com/brochures

TRÜTZSCHLER
SPINNING

Fiber preparation installations: Bale openers · Mixers · Cleaners/
Openers · Foreign part separators · Dust separators · Tuft blenders
Waste cleaners | Cards | Draw frames | Combing machines | Digital
Solutions: My Mill · My Production App · My Wires App

TRÜTZSCHLER
NONWOVENS

Bale openers/Mixers | Card feeders | Cards/Crosslappers
Wet laying lines | Hydroentangling, needling, thermo- and chemical
bonding lines | Finishing, drying, winding, slitting machinery

TRÜTZSCHLER
MAN-MADE FIBERS

Filament lines: Carpet yarns (BCF) · Industrial yarns

TRÜTZSCHLER
CARD CLOTHING

Metallic wires: Cards · Cards long staple · Cards Nonwovens
Rotor spinning | Flat tops | Fillets | Carding segments
Service machines | My Wires App | Service 24/7

www.truetzschler.com