

AUTOCLEAVER S1™

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Automatic cleaver for precise bare fiber length control

- Fully automatic
- Provides close control of bare fiber length after cleaving
- Low cleave angles < 0.30 degrees
- Designed for production and laboratory environments
- Operator skill independent and easy to use
- Automatic waste fiber collection
- Long-lasting diamond blade



This ultra high precision cleaver is specially designed for production applications where close control of bare fiber length after cleaving is required. It senses the edge of the coating and automatically adjusts the cleave point to meet a specific bare fiber length with high precision. This length is specified by the customer at order and can be fine tune by software between 0 and 500µm.

A close control of sensitive cleaving parameters such as tension and exact speed and position of the diamond blade ensures consistent cleaving results with cleave angles typically below 0.3 degrees.

Regarding cleave length, our tests indicate that a standard deviation of less than 0.01 mm can be accomplished when cleaving 125µm cladded fiber to 3.4 mm bare fiber length, provided that the stripping interfaces have sufficient quality.

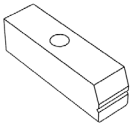
The AUTOCLEAVER S1™ comes in an ergonomic bench top design and is available in different versions for 80µm and 125µm fibers. For more information about available configurations, please contact us with details about your application and requirements.

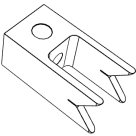


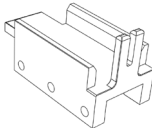
TECHNICAL DATA

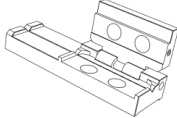
Cladding diameter	80 and 125µm
Coating diameter	160-400µm
Cleave Angle	Typical < 0.3 degrees
No of cleaves/blade	>30,000
Fiber waste length	Typical < 20mm, automatic disposal
Power supply	External 12 V DC, 15 W
Compressed air supply	External compressor, 6 Bar, 4 mm instant push-in fitting
PC Interface	RS-232
Dimensions	175 mm (W) x 138 mm (D) x 104 mm (H)
Weight	1.4 kg

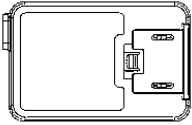
NYFORS part numbers: 125µm version: 50100028, 80µm: 50100029

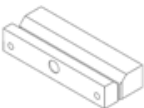
ACCESSORIES FOR AUTOCLEAVER					ACL STD*	LDF-M	LDF (SP)	LDF (LP)	S1	S2	LDA
V-groove	Cladding diameter	Article No.	Article description	Label							
	80µm	50100089	V-groove, 80µm cladding	Blue	•	•			•	•	
	125-199µm	50100085	V-groove, 125-199µm cladding	Yellow	•	•			•	•	
	200-349µm	50100086	V-groove, 200-349µm cladding	Orange	•	•	•	•			•
	350-699µm	50100087	V-groove, 350-699µm cladding	Green		•	•	•		•	•
	700-1000µm	50100088	V-groove, 700-1000µm cladding	Red			•	•		•	•
	Customer Specified	50100090	V-groove, Generic	-	•	•	•	•	•	•	•
	Type	Article No.	Article description	Label							
	Backstop v-groove	50100040	Fiber backstop for v-groove	-	•	•	•	•		•	•

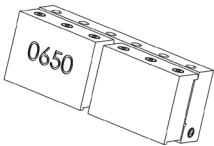
Height adjuster	Cladding diameter	Article No.	Article description	Label							
	80µm	50100052	Height adjuster, 80µm cladding	Blue	•	•			•	•	
	125-159µm	50100046	Height adjuster, 125-159µm cladding	Yellow	•	•			•	•	
	160-199µm	50100047	Height adjuster, 160-199µm cladding	Blank/Grey	•	•				•	
	200-349µm	50100048	Height adjuster, 200-349µm cladding	Orange		•	•	•		•	•
	350-529µm	50100049	Height adjuster, 350-529µm cladding	White		•	•	•		•	•
	530-699µm	50100050	Height adjuster, 530-699µm cladding	Black			•	•		•	•
	700-1000µm	50100051	Height adjuster, 700-1000µm cladding	Red			•	•		•	•
	Customer Specified	50100053	Height adjuster, Generic	-	•	•	•	•	•	•	•

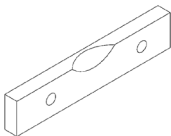
Adaptor plate	Type	Article No.	Article description								
	Fujikura (FH-100)	50100010	Adaptor plate, FJK (FH-100)	•		•		•	•		
	Fujikura (FH-60)	50100161	Adaptor plate, FJK (FH-60)	•		•		•	•		
	Fujikura (FH-70)	50100102	Adaptor plate, FJK (FH-70)	•					•	•	
	Fujikura Dual (FH-100)	50100112	Adaptor plate, Dual FJK (FH-100)		•		•				
	FITEL (S710S-LDF)	50100113	Adaptor plate, FITEL (S710S-LDF)	•		•		•	•		
	NYFORS/Ericsson	50100011	Adaptor plate, NYF/ECA	•					•		
	FITEL (S710S)	50100041	Adaptor plate, FITEL (S710S)	•		•		•			
	FITEL (S712S)	***	Adaptor plate, FITEL (S712S)	•		•		•			
	Vytran VHM-series	***	Adaptor plate, Vytran (VHM-series)	•		•		•			
	MINICOATER 2	***	Adaptor plate, MINICOATER 2	•		•		•			

Fiber holder	Coating diameter	Article No.	Article description								
	160-250µm	50100038	NYF/ECA Fiber holder, 160-250um coating, Left	•					•		
	160-250µm	50100039	NYF/ECA Fiber holder, 160-250um coating, Right	•					•		
	900µm	50100157	NYF/ECA Fiber holder, 900um coating, Left	•					•		
	900µm	50100158	NYF/ECA Fiber holder, 900um coating, Right	•					•		

Power supply & adaptors	Type	Article No.	Article description								
	Power supply, ACL	50100075	Power supply, 100-240V, 15W	•	•	•	•	•	•	•	•
	Adaptor for AU	50100006	Adaptor, Power supply (AU)	•	•	•	•	•	•	•	•
	Adaptor for EU	50100007	Adaptor, Power supply (EU)	•	•	•	•	•	•	•	•
	Adaptor for UK	50100008	Adaptor, Power supply (UK)	•	•	•	•	•	•	•	•
	Adaptor for US	50100009	Adaptor, Power supply (US)	•	•	•	•	•	•	•	•

Linear insert	Coating diameter	Article No.	Article description	Label							
	210-699µm	50100070	Linear insert, 210-699µm coating	210-699µm		•	•	•		•	
	700-1000µm	50100071	Linear insert, 700-1000µm coating	700-1000µm		•	•	•		•	
	Customer Specified	50100072	Linear insert, Generic	-		•	•	•		•	

Accessories for AUTOCLEAVER											
Holder, LD	Coating diameter	Article No.	Article description	Label	ACL STD*	LDF-M	LDF (SP)	LDF (LP)	S1	S2	LDA
	200-299µm	50100059	Holder, LD, 200-299µm coating	250µm		•	•	•		•	
	300-399µm	50100060	Holder, LD, 300-399µm coating	350µm		•	•	•		•	
	400-499µm	50100061	Holder, LD, 400-499µm coating	450µm		•	•	•		•	
	500-599µm	50100062	Holder, LD, 500-599µm coating	550µm		•	•	•		•	
	600-699µm	50100063	Holder, LD, 600-699µm coating	650µm		•	•	•		•	
	700-799µm	50100064	Holder, LD, 700-799µm coating	750µm		•	•	•		•	
	800-899µm	50100065	Holder, LD, 800-899µm coating	850µm		•	•	•		•	
	900-999µm	50100066	Holder, LD, 900-999µm coating	950µm		•	•	•		•	
	1000-1099µm	50100054	Holder, LD, 1000-1099µm coating	1050µm		•	•	•		•	
	1000-1199µm	50100055	Holder, LD, 1100-1199µm coating	1150µm		•	•	•		•	
	1200-1299µm	50100056	Holder, LD, 1200-1299µm coating	1250µm		•	•	•		•	
	1300-1399µm	50100057	Holder, LD, 1300-1399µm coating	1350µm		•	•	•		•	
	1400-1499µm	50100058	Holder, LD, 1400-1499µm coating	1450µm		•	•	•		•	
	Customer Specified	50100067	Holder, LD, Generic	-		•	•	•		•	

Distance plate, LD	Cladding diameter	Article No.	Article description	Label							
	200-349µm	50100034	Distance pl., LD, 200-349µm cladding	Orange		•	•	•		•	
	350-699µm	50100035	Distance pl., LD, 350-699µm cladding	Green		•	•	•		•	
	700-1000µm	50100036	Distance pl., LD, 700-1000µm cladding	Red		•	•	•		•	
	Customer Specified	50100037	Distance pl., LD, Generic	-		•	•	•		•	

Spare-/Replacement parts for AUTOCLEAVER												
	Type	Article No.	Article description									
	Diamond blade	50100091	Diamond blade, AUTOCLEAVER	•	•	•	•	•	•	•	•	
	Blade replacement tool	50100032	Diamond blade replacement tool	•	•	•	•	•	•	•	•	
	Fixed clamp block	50100042	Fixed clamp block, AUTOCLEAVER	•	•	•	•	•	•	•	•	
	Front cover, STD	50100096	Front cover, STD/LDF-M	•	•				•	•		
	Front cover, LDF	50100162	Front cover, LDF (SP/LP)				•	•			•	•
	Fiber waste collector	50100098	Fiber waste collector	•	•	•	•					

Options (ordered separately) for AUTOCLEAVER											
	Type	Article No.	Article description								
	S1-kit	50100160	Coating sensing for cleave length control	•	•	•	•				
	S2-kit	50100159	Extended v-groove clamping control	•	•	•	•				
	LDA-unit	50100012	Angle cleaving		•		•				

* AUTOCLEAVER STANDARD, for 80-230µm Cladding diameter

Make sure that the accessory/spare part is compliant with your unit by comparing the checkboxes.

Please contact us if you have any questions.