

8 Supplements / Changes / Notices

Changes at Software Version 2.000

Splice memory

The Fusion Splicer with extended splice memory can store 800 splice results (12 splices).

The Fusion Splicer X75-12 has a larger extended storage (EEPROM) beginning with serial number 8000.

Axis- and cleave angle

The measured axis- and cleave angles are displayed.

New programs

4 new programs are available :

- 2 programs for NZDS fibers
- 2 user-defined programs

At reset (press the P- and diamond keys simultaneously when turning the machine on), the parameters of the user-defined programs are **not** changed.

In the NZDS programs (and in user programs with NZDS fiber types) additional parameters are included:

- pulse count
- pulse current
- pulse time

- pulse pause
- z-motion

All these parameters allow pulsing of the arc after the fusion process . The parameter z-motion is the distance in μm , that the sliding stages are moved apart during pulsing . Through this movement “tapering” is possible for the fiber. If the parameter pulse number is set to 0, the splicer does not pulse after splicing. In this case the remaining parameters are not considered. The splice attenuation can be reduced by applying additional pulses the NZDS fiber.

Selecting Parameters With the new software the standard parameter values are changed!

The parameter values have been optimized during final testing of the splicer and may therefore be slightly different than those shown in the following tables above. The parameter values can also change depending on the software version.

Standard parameters X75-12 for single-mode fibers (Software 2.0)

Actual parameters may be slightly different due to machine-specific optimisation.

Program		1	2	3	4	5	6	7	8
no of fibers		12	10	8	6	4	3	2	1
fiber type		SM	SM	SM	SM	SM	SM	SM	SM
z-gap	um	10	10	10	10	8	8	8	10
autofeed	um	27	27	27	25	18	16	14	27
cleaning curr.	um	30	29,2	28,3	27,5	26,7	25,8	25	30
cleaning time	um	0,1	0,1	0,1	0,1	0,1	0,1	0,1	0,1
prefusion curr.	mA	28	26,4	24,8	23,3	21,7	20,1	18,5	28
prefusion time	s	0,4	0,4	0,4	0,4	0,4	0,3	0,3	0,4
fusion current	mA	32,5	30,3	28,2	26	23,8	21,7	19,5	32,5
fusion time	s	12	12	10	10	6	6	6	12
max. xy-offset	um	7	7	7	7	7	7	7	7
max. axis angle	°	1	1	1	1	1	1	1	1
max. endf. angle	°	5	5	5	5	5	5	5	5
max. z-tolerance	um	20	20	20	20	20	20	20	20
tensile test		on	on	on	on	on	on	on	on

Standard parameters X75-12 for multimode fibers (Software 2.0)

Actual parameters may be slightly different due to machine-specific optimisation.

Program		1	2
no of fibers		12	1
fiber type		MM	MM
z-gap	um	10	10
autofeed	um	32	14
cleaning curr.	um	30	25
cleaning time	um	0,1	0,1
prefusion curr.	mA	31	16
prefusion time	s	1	0,6
fusion current	mA	28	18
fusion time	s	13	8
max. xy-offset	um	7	7
max. axis angle	°	1	1
max. endf. angle	°	5	5
max. z-tolerance	um	20	20
tensile test		on	on

Standard parameters X75-12 for NZDS-fibers (Software 2.0)

Program		1	2	Actual parameters may be slightly different due to machine-specific optimisation.
no of fibers		12	12	
fiber type		TW	LEAF	
z-gap	um	10	10	
autofeed	um	24,5	24,5	
cleaning curr.	um	30	30	
cleaning time	um	0,1	0,1	
prefusion curr.	mA	28	28	
prefusion time	s	0,4	0,4	
fusion current	mA	32,8	32,5	
fusion time	s	13	13	
max. xy-offset	um	4	7	
max. axis angle	°	1	1	
max. endf. angle	°	5	5	
max. z-tolerance	um	20	20	
tensile test		on	on	
puls count		4	5	
pulse current	mA	32,8	32,5	
pulse time	s	6	6	
pulse pause	s	2	2	
z-motion	um	2,5	2,5	

