

Table: SUN-UM-PCPL-CCM001-E

Version: A/0

SUN-CCM-X20D Cable Cutter Machine

Sun Telecom's SUN-CCM-X20D automatic cutting machine is professional equipment, which is used in optical fiber jumper cable (or cable) production to measure length, cut, count, wind and spray words marking (optional). It can cut cables of different sizes and wind them into the desired length and annular, with advantages of measuring accurately, a series of cutting, winding, easily automatic operation. It can set different length, speed, and numbers and so on, greatly improving the production efficiency.



Features

- Max 500m cable length cutting
- Cable arrange function optional
- Touch Screen

Application

Patch Cord Production Line



Specifications

Parameters	Specification		
Model	SUN-CCM-X20D	SUN-CCM-X20D-2	
Operation Interface	Touch screen	Touch screen	
Cutting Speed (m/s)	≤1.5	≤1.5	
Cable Length After Cutting (m)	3~500	3~500	
Cutting Accuracy (mm)	≤± (2+L*0.003)	≤± (2+L*0.003)	
Bearing Weight (kg)	≤150	≤150	
Cutting Cable Specifications	¢ 09-7	¢ 09-7	
(mm)	¢ 0.5 T	∉ 0.9-7	
Spraying Function	Support	Support	
Cable Receiving Machine	Without Cable	With Cable	
Cable Receiving Machine	Arrange function	Arrange function	
Power Supply (kw/v)	1.8/220	1.8/220	
Gas Source (MPa)	≥0.5	≥0.5	
L*W*H (m)	3*1*1.2	3*1*1.2	

Instruction

1. Language Change





Chinese: choose Chinese English: choose English

2. Opening Display



Click to enter: click the button and enter next

3. Main Menu

21/11/1	7 11.4	2		lancion 2015
Length	5000		Stant	ersion225
Number of cables	10	pieces		
Completed	3	pieces	Alarm	Setting
Process		0 mm		

Start: Start cutting the cable Off: Stop cutting the cable Alarm: Enter the "alarm" information



Setting: Enter the "setting" menu

4. Alarm Information



In this page, you can see the alarm information and judge where the problem is.

Clear: clear all the alarm information

Proceed: continue the program, but the result maybe incorrect Back: back to the main menu

5. Menu Setting

Length	Number of cables	Speed	Manual
Initializati on	Restart	Attachments	
			Back



5.1 Length Setting



Length: input how long you want to cut the cable and press "length confirmation"

Wheel coefficient: default is 100%, it will change with actual length

Actual length: input the length which the machine actual cutting and press "actual length confirmation"

Original factory value: factory reset with wheel coefficient

Database: enter database menu

Database Setting

Lenath Actuallenath	2000 mm 2000 mm	Save	Input
Quantity Finished quantity	100 3	PgUp	Output
Coefficient Database	6800 02	PgDn	Back



Save: save the length setting into database Input: input the length setting to the machine Pgup: page up/forward Output: output the length setting to the machine Pgdn: page down/downward

5.2 Number of cables setting

Number of cables	100	pieces	
Completed cables	0	pieces	
			Back

Number of cables: how many cables do you want to cut Completed cables: how many cables have been completed



5.3 Speed Setting



It will control the cutting speed Speed up: speed up the speed Speed down: slow down the speed

5.4 Manual Setting



Cutter: cut the cable manual

Pending coiling: pending the cable coiling

Tight wheel/rising the roller: rising the roller and let the cable in, then tight the wheel, then press cutter



5.5 Restart Setting



First length 1: the length is first length that cable output Marking length 2: this length is for marking the location



5.6 Attachments Setting



Automatic cutter open: automatic cutter open function open or close Cable pot/cable receiving machine: cable pot or cable receiving machine Automatic reel open: automatic reel open function open or close

Part I Cutter

Operating Controls

Control panel	The control panel is used to program
Adjustment	This adjustment knob is used to select the pressure of
knob for feed	the feed rollers onto the cable. To set the pressure, pull

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roller pressure	out the knob until it engages, turn it to the left or right
and gauge	and then press it back into the start position. When in the
	start position the adjustment knob cannot be turned. The
	air gauge will show the pressure setting from 0-10 bar
	(0-140 psi).
	The air filter/pressure ensures that clean air is fed to the
Air filter	pneumatic system. The pressure regulator is used to
pressure	select the input pressure. To set this pressure, pull out
regulator for	the knob until it engages, turn it to the left or right and
input pressure	then press it back into the start position. When in the
	start position, the adjustment knob cannot be turned
Cable suides	The cable guides keep the cable straight. They can be
Cable guides	set to the cable diameter using the two knurled screws
	The Emergency -Off switch immediately shuts off all the
Emergency-Off	functions of. To do this, press the knob in firmly until it
switch	engages. To release it, turn the Emergency-Off switch
	clockwise until it springs out of the engaged position
Clear plastic	The clear plastic slider is left in for most applications. For
slider cable	very short pieces, the slider can be removed to allow the
output	material to slide down the exit
	The master switch is used to switch on and off (Figure
Master switch	3). After being switched on, the following appears in
	the display: Software version 1.5 edition 4(04/05)
	The out-of-material switch stops or prevents processing
Out of motorial	if no cable has been inserted into the unit or if the cable
owitch	has been used up. The rod is then positioned fully
SWIICH	downwards as shown in Figure 1. When the rod is raised
	up, the monitoring is switched off (Figure 8)



Air pressure gauge Emergency off switch Control panel _ Out-of-material switch(Rod) Out-of-material switch(Rod)

Figure 1 Front View



Figure 2 Rear View

Connections





Figure 3 Rear Panel XZ Diagram

SETUP

It is imperative to check whether the mains voltage set on the unit is the same as the local mains voltage. If the voltages differ then you must adjust the mains voltage on the unit using the voltage selector.

- Place the X20-D on a equipment rack or a hard, even base.
- Switch the master switch off if it is on
- Connect the compressed air to the filter / regulator unit, max pressure 10 bar (Figure 3)
- Adjust the pressure to maximum of 7 bars. Connect the mains cable



Operation



Figure

- Turn the master switch on, the PLC will display as the figure
- Raise the out-of-material switch up. As be shown figure 11
- Insert a cable between the cable guides until the cable can't move along (approximately 100mm), it means the end of the cable reached the cable cutter blade
- One minute later after you turn the master switch on, the PLC will display as figure

MAINTENANCE

All ball bearings and bushings are dustproof and are permanently lubricated. Therefore no lubrication work is required.

Cleaning

Virtually no waste is created either when cutting or stripping cable and tube material. Nevertheless, it may be necessary from time to time to remove



dust etc. from

- Cleaning the housing with a damp cloth and an all-purpose cleaning agent
- The best way to remove dust and similar dirt is with a paint brush and vacuum cleaner attachment. Never use compressed air; otherwise you will blow the dirt right inside the machine housing

Replacing blades

- Switch the master switch off. Disconnect the power cord from the power supply. Disconnect from the compressed air supply
- Handle lift the cutter. To do this, undo the 4 screws around the edge of the cover
- Take out the cutter system from the cabinet, rub the blade with an oily cloth and fit it into the holder–screw tight
- Align the blades using the procedure

TROUBLESHOOTING, FAULT CLEARANCE, REPAIRS

All maintenance work should be carried out by specially trained personnel only agents, the user's own specially trained personnel

Electrical faults

In the event of any faults you should always check whether the power and compressed air supply is on and correctly connected. The procedure for replacing mains fuses is described on page? If any faults occur that you are unable to correct, please notify Customer Service. State the program version number as it appears in the display when the unit is switched on.

Replacing the Electronics Modules

The electronics controls are housed in two "control panel" and "real panel"



modules. The rear panel electronics module provides the power supply and servo motor controls. It is located on the rear panel of. The control panel electronics module regulates and controls all processes as well as length measurement. Should any repair work be required, the whole control panel must be removed and sent to the Customer Service Department. Do not attempt to repair or replace individual components.

Mechanical and Other Faults

Cable lengths incorrectly cut

Possible Cause	Action
Although the length measurements	
have been correctly programmed	Set the correction factor to 100%
the cut length is incorrect. A	(correct keys section "Key Function"
correction factor may have been	Page?)
programmed	
The cable is not being fed in loosely	Ensure that the cable reel can
and evenly	unwind smoothly
	Adjust the cable guides in such a
There is insufficient play between	way that there is approx 1 mm play
the cable guides.	between cable and guides
	("Operation" section, Page?)
The feed roller are dirty and / or	Clean or replace the feed rollers
worn (nominal diameter 31.85 mm)	Clean of replace the feed foliers
The feed roller pressure on the	Increase the feed roller pressure
cutting material is insufficient	("Operating Control" Section, Page?)
	Reduce the processing speed
The processing feed is too high	(speed keys, "Key Functions"
	Section, Page?)



Cutter blocked, not cutting or cutting unevenly

Possible Cause	Action
	Remove the cover on the rear panel as described
The blades are blunt	on Page? If the blades are blunt or defective refer
or defective	to the information in the same chapter on how to
	replace the blades
The blades are poorly	Pondiust the blades (Page2)
adjusted	Readjust the blades (Fage?)
	At least 2 bar (30psi) input pressure. However, 2
Incufficient proceure	bars will only allow you to process thin materials
of the compressed air	which can easily be cut. A higher pressure is
	required depending upon the composition of the
supply.	material. See also the section entitled
	"compressed air connection" Page?

CCM-X20D will not start

Possible Cause	Action	
The automatic unit is not	Insert the power cord into the power	
connected to the mains	supply	
The automatic unit has not	Switch the master switch on	
been switched on	Switch the master switch on	
The Emergency-Off switch	Poset the Emergency Off switch	
has not been reset	Reset the Emergency-Off switch	
The mains fuses have blown	Replace the fuses (Page?)	
The funce on the rear panel	These fuses can be found on Page? in the	
Ine luses on the real panel	section entitled "Checking Supply	
electronics unit have blown	Voltages".	



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