

Operating Instructions

Cosmic 60R



MCM COSMIC K.K.

1. Dear Customers

Thank you for purchasing **Cosmic 60R Rotary Jacket Stripper**.

This machine is developed for stripping various types of cables. Cutting diameter ranges from 3.0 to 11.0mm, and quality processing is as easy as turning the adjusting knob, with no hustle of changing blades!

Please read through and refer to this **OPERATING INSTRUCTIONS** as needed, and get completely familiar with the machine and its functions for proper and safe use.

- On receiving the machine, please check the followings.
 - 1) The machine is the one you ordered.
 - 2) Any exterior damage done during transportation.
 - 3) The following accessories.
 - a) Power cord with 2 phase socket
 - b) Tool kit box
 - c) Foot Pedal Switch

2. Safety Notes

2.1 Symbols



CAUTION

Please follow exactly the work and processes marked with this symbol. Failure to do so may result in death or severe injury.



NOTE

Please follow exactly the work and processes marked with this symbol. Failure to do so may lead to minor injuries and to damage the machine.

2.2 Safety Requirements



CAUTION

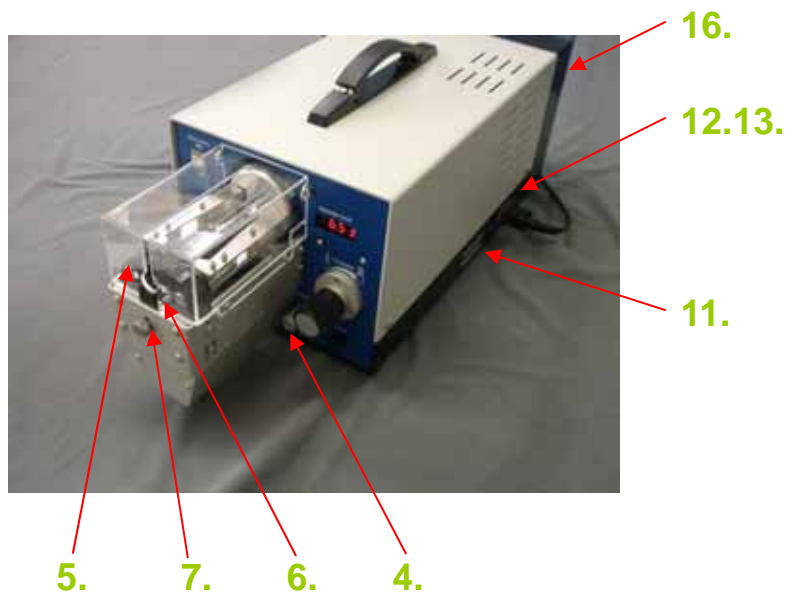
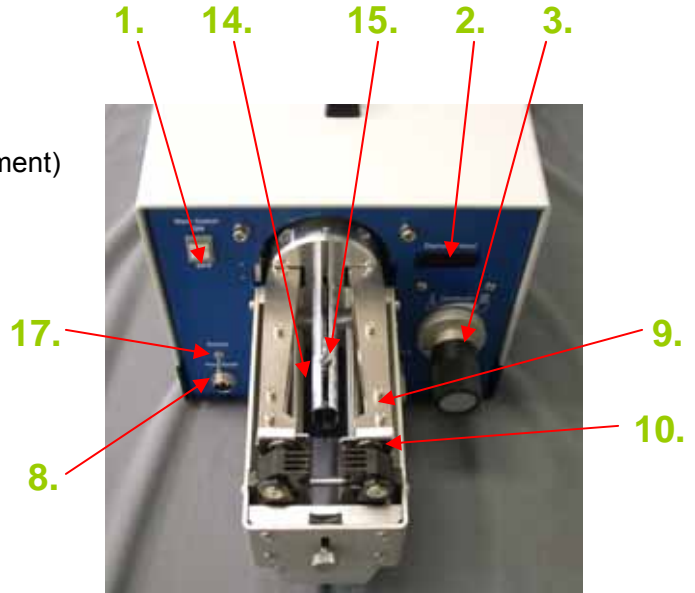
- This machine is designed for use by people over 14 year of age. It is strictly forbidden to allow people less than 14 year of age to have access to the machine.
- The machine must only be used in dry, dust-free rooms.
- Never operate the machine unless the safety cover is in place.
- Always disconnect the machine from the main power supply before carrying out any maintenance work.
- Never operate the machine unless it is correctly earthed.

3. Technical Specifications

Description	Specifications
1) Cross section range	3 ~11mm outer diameter
2) Strip length	20 ~ 90 mm
3) Blade pull-back length	Max. 50mm
4) Diameter setting	Conductor Knob (Digital Display)
5) Cycle time	Max. 5 sec.
6) Blade material	Tool Steel (Carbide /Optional)
7) Controller	Micro Processor
8) Power supply	AC110V or AC230V, 0 / 60 Hz
9) Capacity	125VA
10) Machine dimensions	628 L X 241 W X 230 H
11) Machine weight	20Kg

4. Machine Overview

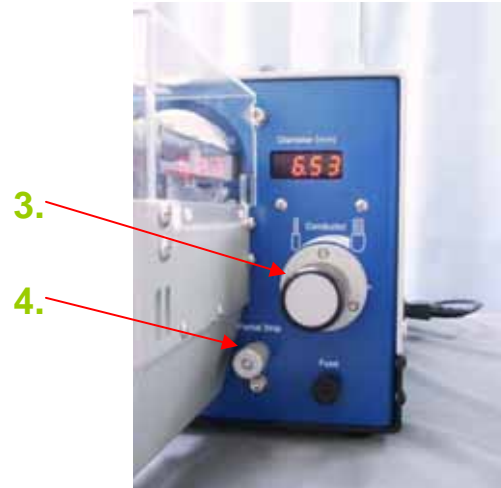
1. Main switch
2. Digital display
3. Conductor (for diameter)
4. Adjusting knob (for Blade movement)
5. Safety cover
6. Wire guide (Leveler)
7. Fixing screw (for Leveler)
8. Foot switch connector
9. Blade arm
10. Blade
11. Scale (for semi-strip)
12. Power socket
13. Power cord
14. Centering guide
15. Length adjuster
16. Rear cover
17. Select switch



5. Setting-up

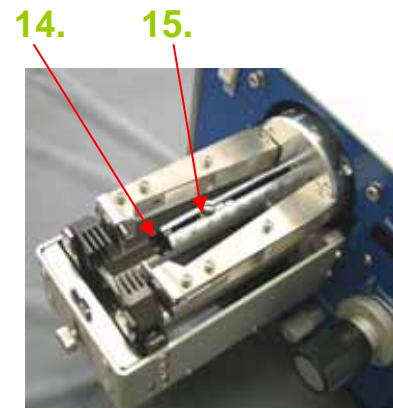
5.1 Setting Cutting Diameter

Rotate Conductor³ to set cutting diameter.
The size in mm appears on Digital display².
CW for larger and CCW for smaller.



5.2 Setting Strip Length

Slide Length adjuster¹⁵ to the stripping length on the scale of Centering guide¹⁴ and tighten it.
To process cables, insert the cable end into Centering guide¹⁴ to touch Length adjuster¹⁵ and it starts stripping cycle.



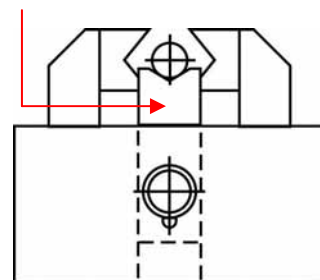
5.3 Setting Semi-strip Length

Rotate Adjusting knob⁴ to set semi-strip length.
The length in mm is read on Scale¹¹.
Always operate this machine for semi-stripping,
otherwise the stripped-off materials will be left in Centering guide¹⁴.
Therefore, Scale¹¹ must read shorter than Length adjuster¹⁵ at all times.

5.4 Setting Wire Guide (Leveler)

Slide Wire guide (leveler)⁶ so that the processing cable is in line with the center in between Grippers.

The Position to set Leveler



5.5 Connecting Power Supply

Connect Power cord¹³ to Power socket¹². Main switch¹ **ON** and make sure Digital display² is on.

5.6 Adjusting Gripping Strength

Gripping strength can be adjusted softer for thin and flexible insulation and firmer for thick and tough insulation.

5.6.1 How to adjust gripping strength



CAUTION Power cord must be pulled off before this procedure.

Insert a hexagon wrench (4mm) through the opening on Rear cover¹⁶ into the shaft inside.

Turn it CCW for weaker gripping strength and CW

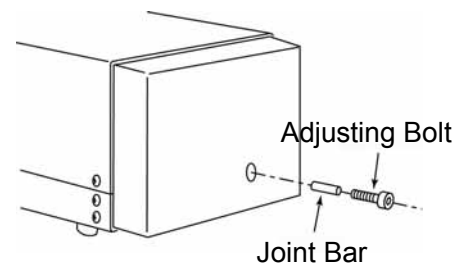
For stronger (See the right picture).



5.6.2 Inside Structure

The adjusting bolt is pushing the joint bar, which in turn compresses a spring inside that makes gripping strength (See the right figure).

NOTE : If the adjusting bolt came off when loosened too much, put it back in place and screw it in.



5.7 Foot Switch

Connect Foot switch to Connector⁸ and choose “Foot Pedal” on Select switch¹⁷.

With “Foot Pedal” selected, the start sensor is disabled.

5.8 Changing Blades



CAUTION Main switch OFF and Power Cord must be pulled off before this procedure.

NOTE : Read through this instruction first and be sure to understand it well.

5.8.1 Mechanism inside Bladearm

Figure (A)

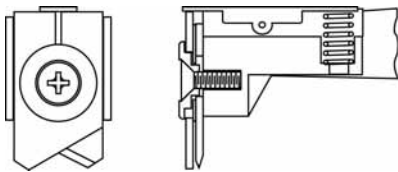


Figure (B)



See figure (A). Blade and Centralizer are installed on Bladearm with a spacer in between.

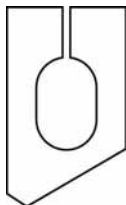
Blade and the spacer are fixed-on while Centralizer can slide up and down, being pressed downward by the lever, which is pushed upward on the other end by a spring.

Figure (B) shows when Blade is cutting into a piece of cable. Centralizer has simultaneously slid upward, pushing the cable downward to keep it in the center of the rotor blades.

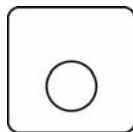
Thus Blades cut in evenly, making precision strip possible.

5.8.2 The shapes and names of each part

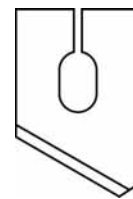
(1) Centralizer



(2) Spacer



(3) Blade



(4) Fixing screw



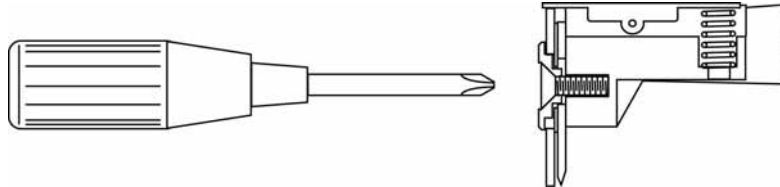
(5) Fixing washer



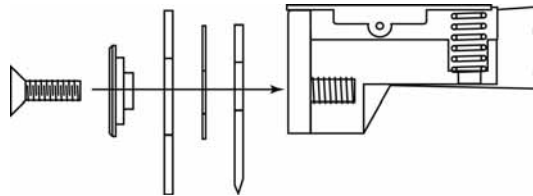
5.7.3 Changing Blades

1) Removal

As shown in the figure below, loosen the fixing screw with a screwdriver and remove the 5 pieces illustrated on the previous page (5.8.2).



2) Reassembly



Reassemble carefully through the following procedure.

- Blades are the main wear parts in this section. Other parts seldom need replacing.

Procedure and points to care

- (1) Each Blade has two sides. Put them back in place in accordance with the figure above.
- (2) Mount Centralizer to compose a “V” shape with Blade. (See figure B on previous page, 5.8.1)
- (3) Loosely tighten the screw, and make sure that Blade, Spacer and Centralizer are properly held inside the width of Bladearm.
- (4) Then push Blade alone with a fingertip all the way up to the end and tighten the screw.
- (5) Make sure Centralizer slides smoothly with the screw tightened.

6. Interlock

6.1 Safety Cover

With Safety cover⁵ removed, the circuit interlock is in effect and the machine will **not** operate.

<Installation and removal of Safety Cover>

Slide Wire guide (leveler)⁶ all the way down when installing and removing Safety cover⁵.

6.2 Overload

If cables out of the specifications were processed the circuit interlock may come at work.

How to release overload interlock



CAUTION

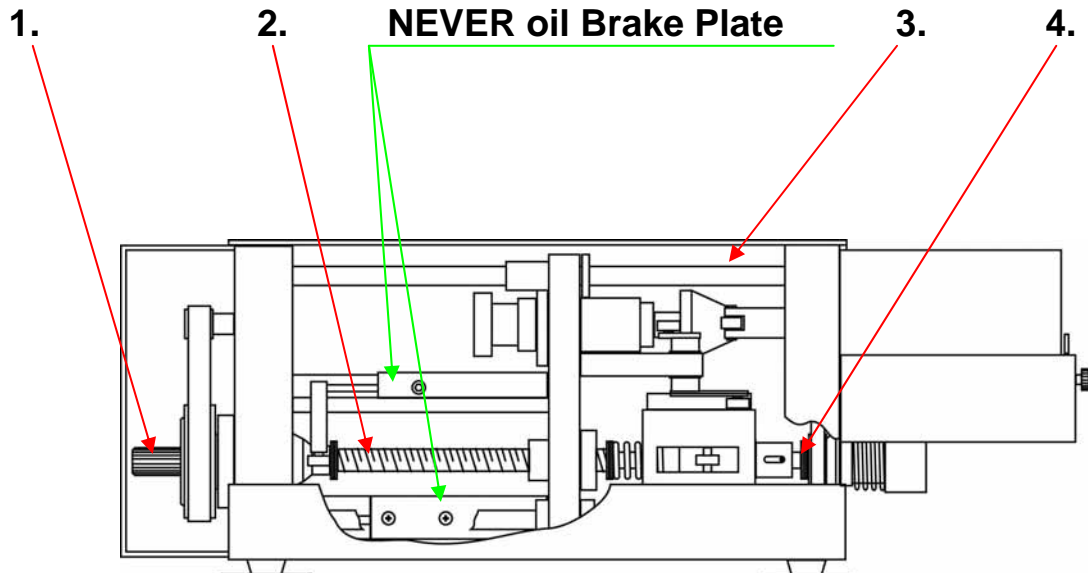
**Main switch OFF and power Cord must be pulled off
before this procedure.**

Remove Rear cover¹⁶, rotate the pulley CCW to open bladearms so that the processing cable can be taken out of Centering guide¹⁴. Connect Power cord¹³ and main switch¹ ON.

Now interlock is released but operate 1 cycle without cable before start processing.

7. Lubrication

Lubricate the following points periodically.



Lubrication points	Oil	Period
1. Spline Shaft	Grease	Every 6 months
2. Ball Screw Shaft	Grease	Every 6 months
3. Guide Shaft	Grease	Every 6 months
4. Slide Shaft	Lubrication oil	Every 3 months

Grease : Lithium soap type grease / viscosity 30 – 140 cst

Lubrication Oil : 32 – 100 / ISO grade

NOTE :

- 1) **NEVER lubricate the Brake Plates.**
- 2) If the interval between use is longer than 4 months, lubricate before operation.

8. After-Sales Service

8.1 In case of trouble please contact us or the distributor. The repair work for customers can be difficult to do and, in many cases result in more damage to the machine. Such cases cannot be covered by the maker warranty.

8.2 Warranty

The warranty period is 1(one) year after purchase. The followings are the circumstances in which the warranty is invalid.

- 1) Troubles caused by customers' negligence. (accidental fall, etc.)
- 2) Troubles caused by natural disaster or fire.
- 3) Troubles caused by usage out of its specifications and/or intended use.
- 4) Troubles caused by unauthorized repair works and/or modifications.
- 5) Ware parts and replacement cost.

Manufactured by

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