Instruction Manual

153 [Standard] 154 [5 mm (0.2 in.) Pitch]

Thank you for purchasing the HAKKO 153/154 Lead Former. This manual contains a simple explanation of the use of the unit. Be sure to read it before using the HAKKO 153/154 and keep the manual handy for easy reference.

Package Contents

Main Unit1	Hexagon Wrench/2mm (0.08 in.)1
Parts Trey1	Hexagon Wrench/2.5mm (0.1 in.)1
Clamp 1	Hexagon Wrench/3mm (0.12 in.)1
Handle1	Hexagon Wranch/4mm (0.16 in.)1

Specifications

Name	HAKKO 153	HAKKO 154
Forming Size	5.6 mm (0.22 in.) Pitch	Sanm (0.2 in.) Prich
External Dimensions	125(W) × 13D(H) × 11O(D) mm [4.9(W) × 5.1(H) × 4.3(D) in.}	
Approximate Weight	2 kg (4.4 lbs.) including handle and clamp	

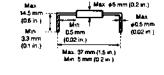
Competible Taping Dimension

Outer width of tape	Max. 85mm (3.3 in.)
Pitch	5mm (0.2 in.)

Cutting & Forming **HAKKO 153**

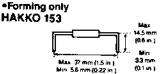
14.5 mm (0.6 in) Min

3.3 mm (0 1 m) Max 37 mm (15 in) Min 56 mm (0.22 in)



HAKKO 154

HAKKO 154







Related Products

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Motor drive for Lead Formers and Lead Cutters Ensures accurate, high-speed processing at stable torque.

Specifications

Cutting only

HAKKO 153-154

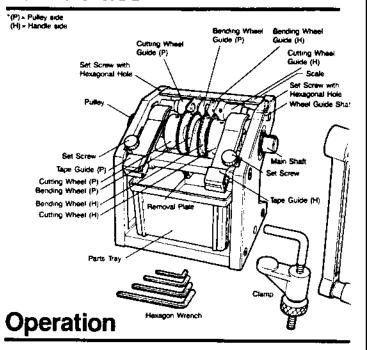
Name	HAKKO 152
Motor Speed (rpm.)	40 rpm. (50Hz) 48 rpm. (60Hz)
External Dimensions	360(W) × 150(H) × 140(D) mm [14.2(W) × 5.9(H) × 5.5(D) in.}
Approximate Weight	5.1 kg (11.2 lbs.)

Processing Capacity	Max. 50,000 teads per hour when combined with the
L	HAKKO 153/154

Used for cutting and forming of individual parts. A variety of parts can be processed without changing the drum.

Name	HAKKO 156
External Dimensions	131(W) × 49(H) × 136(D) mm [5.2(W) × 1.9(H) × 5.4(D) in.]
Approximate Weight	0.4 kg (0.9 lbs.)

Part Names



< Preparations for Use >

Fasten unit in place.

 Use the Clamp to mount the unit to the workbench.

② Attach Handle.

Insert the Handle so the end of the Adjustment Screw (C) fits into the groove on the Main Shaft, then tighten the screw with the 3mm (0.12 in.) Hexagonal Wrench.

<Cutting and Forming>

1) Set the forming size.

 Using the 3mm (0.12 in.) Hexagonal Wrench, loosen the two Adjustment Screws (A) on the Cutting Wheel.

 Adjust the position of the Bending Wheel Guide to the desired forming size.

The outer edge of the Bending Wheel Guide is the forming point. The lead wires will be bent alone the outside of the Bending Wheel Guide

② Set the cutting size.

 Adjust the position of the Cutting Wheel Guide to the desired cutting size.

Remember that the inside of the Cutting Wheel

 After the desired settings have been made. tighten the Adjustment Screw on the Cutting Wheel.

The screws should fit perfectly into the grooves on the Main Shall or the Bending Wheel and

③ Set the parts tray in place.

 The cover should go on the side with the Scale

Set the Tape Guide in place.

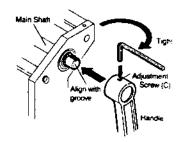
Loosen the Set Screw on the Tape Guide.

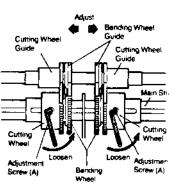
· Adjust the Tape Guide to the width of the part to be laped, then fasten it in place by tightening the Set Screw.

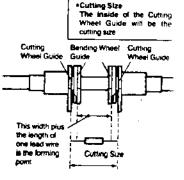
in order to make sure that the tape does not get caught, the Tape Guide should be set to slightly wider than the width of the taped part. Be careful not to set it too wide, since this may result in

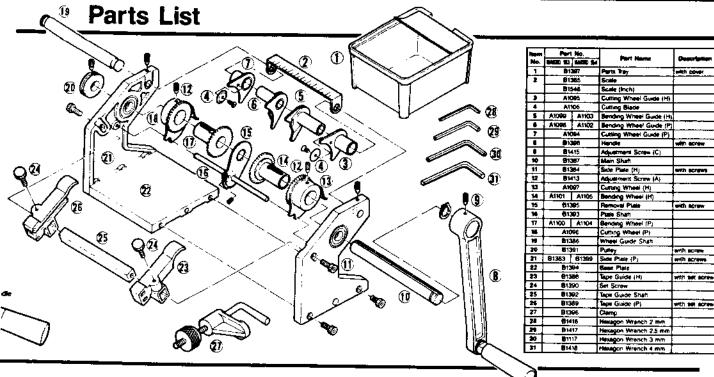
⑤ Place the taped parts in position.

 Place the parts so they catch on the gears of the Bending and Cutting Wheels, then turn the Handle slowly, while holding the first row of parts, until they catch on the Wheel Guides









< Forming Only >

When only forming parts, the maximum size that can be processed is shown in the diagram below:



Note With sizes over 14.5 mm (0.6 in.), forming accuracy cannot be guaranteed

1) Remove the Cutting Wheel Guide.

- Using the 2mm (0.08 in.) Hexagonal Wrench, loosen the two Sel Screws with Hexagonal Holes holding on the Wheel Guide Shaft.
- Pull out the Wheel Guide Shaft and remove the Cutting Wheel Guide.

② Set the Bending Wheel Guide in place.

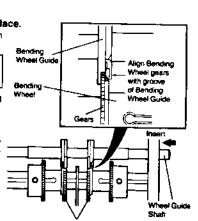
 Insert the Wheel Guide shaft and attach the Bending Wheel Guide.

When mounting, align the groove on the Bending Wheel Guide with the Bending Wheel gears, as shown in the figure at left.

 Fasten the two Set Screws with Hexagonal Holes as before.

③ Set the forming size.

 To set the forming size, use the same procedure as described in "① Set the forming size" in the "Cutting and Forming" section.



Bending Wheel

Guide Shaft

< Cutting Only>

When only cutting parts, the maximum size that can be processed is shown in the figure below:



Switch the Cutting Wheel Guide and the Bending Wheel Guide.

- Using the 2mm (0.08 in.) Hexagonal Wrench, loosen the two hexagonal-hole Set Screws with securing the Wheel Guide Shaft, then remove the Wheel Guide Shaft.
- Switch the positions of the Cutting Wheel Guide (P) and the Bending Wheel Guide (P).
- In the same manner, switch the positions of the Cutting Wheel Guide (H) and the Bending Wheel Guide (H).

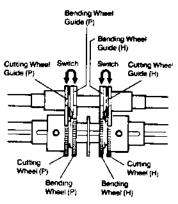
② Assemble the mechanism.

 Insert the Wheel Guide Shaft and mount the Cutting Wheel Guide and Bending Wheel Guide.

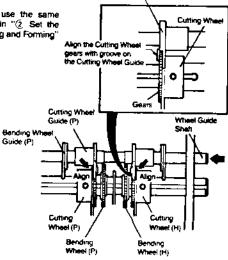
When mounting, align the groove on the Cutting Wheel Guide with the Cutting Wheel gears, as shown in the figure at left. There is no need to align the Bending Wheel and the Bending Wheel Guide.

③ Set the cutting size.

 To set the cutting size, use the same procedure as described in "② Set the cutting size" in the "Cutting and Forming" section of this manual.



Cutting Wheel



Direction of Cutting/Bending Wheel Guides

The figures below show the (P) (pulley) sides of the guides. Be careful to mount them in their proper directions.



≈Bending Wheel Guide

Cutting Wheel Guide

こ注意

- 記録材の加工は、故障の原因となりますので 行わないで下さい

- 1.最大加工径より太い線材
 - 153は ≠0.8mm までの線材でご使用下さい。

ていることがあります。)

CAUTION

Never process a part with the following lead. or it may damage the unit.

- 1. Thicker lead than the following maximum diameter
- 1541ま pU.5mm またい森村でに近州できる。
 2. 軟銅線以外の材質の線材、 154 Max ∮0.5mm
 疑わしい部品の加工を行う際には、部品メー を 2. Except annealed copper lead
 カー等に材質をご確認下さい。 Before start to process a part, check (ガラスダイオードなどには鉄線が使用され the material of the lead. (Some diode may apply the Iron Lead.)

