GRIFFPACK 100/114

BATTERY POWERED SEALER

NOTE: Fully charge battery before first use of tool.

IMPORTANT!
DO NOT DESTROY

It is the customer's responsibility to have all operators and servicemen read and understand this manual.

Contact your local Signode representative for additional copies of this manual.

READ ALL INSTRUCTIONS BEFORE OPERATING THIS SIGNODE PRODUCT
READ THESE INSTRUCTIONS CAREFULLY.
FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SEVERE PERSONAL INJURY.

1. STRAP BREAKAGE HAZARD

Improper operation of the tool or sharp corners on the load can result in strap breakage during tensioning, which could result in the following:

- A sudden loss of balance causing you to fall.
- Both tool and strap flying violently towards your face.

Failure to place the strap properly around the load or an unstable or shifted load could result in a sudden loss of strap tension during tensioning. This could result in a sudden loss of balance causing you to fall.

Read the tool's operating instructions. If the load corners are sharp use edge protectors. Place the strap correctly around a properly positioned load.

- Positioning yourself in-line with the strap, during tensioning and sealing, can result in severe personal injury from flying strap or tool. When tensioning or sealing, position yourself to one side of the strap and keep all bystanders away.
- Using strap not recommended for this sealer can result in strap breakage during sealing. Use the correct Signode products for your application.

2. TOOL CARE

Take good care of the tool. Inspect and clean it daily, lubricate it weekly and adjust when necessary. Replace any worn or broken parts.

3. WORK AREA

Keep work areas uncluttered and well lighted.

4. FALL HAZARD

Maintaining improper footing and/or balance when operating the tool can cause you to fall. Do not use the tool when you are in an awkward position.

5. STRAPPING

Several types of strap can be used with this tool. Use the correct Signode products for your application. If you need help contact your Signode Representative.

6. CUTTING TENSIONED STRAP

Use only cutters designed for cutting strap; never use claw hammers, crowbars, chisels, axes or similar tools. Such tools will cause the strap to fly apart with hazardous force. Before using any Signode product, read its Operation and Safety Manual.
7. GUARD AGAINST ELECTRIC SHOCK

8. CONSIDER WORK AREA ENVIRONMENT
   - Prevent body contact with grounded surfaces, such as pipes, radiators, ranges, refrigerator enclosures.
   - When tool and charger are used outdoors, use only extension cords intended for outdoors and so marked.
   - Wear protective gloves and non-skid footwear when working outdoors.
   - Do not expose power tools directly to rain.
   - Never operate tool in presence of gases or flammable liquids.

9. Never allow visitors to contact tool or extension cords. All visitors should be kept away from work area.

10. DO NOT ABUSE TOOL
   - Keep handle dry, clean and free from oil and grease.
   - Always keep cord from heat, oil and sharp edges.
   - Always store idle tool in dry, high or locked-up place.
   - Always remove battery from tool when not in use or before servicing.
   - To avoid unintentional starting, never carry plugged-in tool with finger on switch.

11. MAINTAIN TOOL WITH CARE

   Check Damaged Parts. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other condition that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have damaged switches replaced by authorized service center. Do not use tool if switch does not turn it on and off.

   - When servicing double insulated tool, use identical replacement parts.
   - Keep tool clean for better and safer performance.
   - Inspect tool, battery and charger periodically and, if damaged, have repaired by authorized service facility.

12. USE FOR THE INTENDED PURPOSE

   This tool is designed for bundling round packages with Signode brand steel strapping.

   POSSIBLE MISUSES

   The use of any other strapping material may void this tool’s warranty.
TRAINING
Read the operating instructions carefully. This tool must not be used by persons not properly trained in its use. Be certain that you receive proper training from your employer. If you have any questions contact your Signode Representative.

EYE INJURY HAZARD
Failure to wear safety glasses with side shields can result in severe eye injury or blindness. Always wear safety glasses with side shields which conform to ANSI Standard Z87.1 or EN 166.

CUT HAZARD
Handling strap or sharp parts could result in cut hands or fingers. Wear protective gloves.

SOUND PROTECTION
When operating the tool, wear ear protection.

ENVIRONMENTAL PROTECTION
Charger and batteries should be sorted for environmental-friendly recycling. Do not open the battery. Do not throw the used battery into household waste, fire or water.

DISPOSAL
This tool is manufactured without any physical or chemical substances which could be dangerous to health. The legal prescriptions for disposal of all the parts must be observed. The electrical assemblies should be dismantled so that the mechanical, electro-mechanical and electronic components can be disposed of separately.

DO NOT USE WATER
Do not use water or stream to clean the tool.

POWER SOURCE
Before starting preventive or corrective maintenance, remove the battery from the tool. Always inspect the electrical plug and cable on charger before use. If damaged, they must be replaced by qualified personnel.
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GRIPPACK 100
Part No. 800650

GRIPPACK 114
Part No. 800250

STRAP SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>STRAP TYPE</th>
<th>WIDTH</th>
<th>THICKNESS</th>
<th>SEALS</th>
<th>RECOMMENDED TENSIONER</th>
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<tr>
<td>GRIFFPACK 100</td>
<td>Magnus</td>
<td>1.000&quot;</td>
<td>.025&quot; to .031&quot;</td>
<td>100P</td>
<td>GRIFFPACK TENSIONER</td>
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<td></td>
<td>Apex Plus</td>
<td>1.250&quot;</td>
<td>(.63-.80mm)</td>
<td>114P</td>
<td>114OF</td>
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TOOL SPECIFICATIONS

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<tr>
<th>MODEL</th>
<th>DIMENSIONS</th>
<th>WEIGHT (W/ BATTERY)</th>
<th>SOUND PRESSURE</th>
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<td>14.25&quot; X 3.25&quot; X 7.25&quot; (362mm X 83mm X 184mm)</td>
<td>7.5 LBS (3.4 kg)</td>
<td>38 DB</td>
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</table>
PRODUCT IDENTIFICATION

A two letter date code can be found on every tool. Contact your local Signode representative to assist in identifying the production month and year of the tool.

Date codes can also be used to properly identify service parts for this tool.
BATTERY INFORMATION & CHARGING

Plug charger into your standard power outlet.

With no battery pack inserted, the charger’s green indicator light will go ON. This indicates the charger is receiving power and the charger is ready for operation.

When you insert the battery pack into the charger. The charger’s green indicator light will begin to “BLINK”. This indicates that the battery is receiving a fast charge.

When the indicator light stops ”BLINKING” (and becomes a steady green light) fast charging is complete. The battery pack is fully charged and can be removed from the charger.

The battery pack may be used even though the light may still be blinking. The light may require more time to stop blinking depending on temperature.

The purpose of the green light is to indicate that the battery pack is fast-charging. It does not indicate the exact point of charge. The light will stop blinking in less time if the battery pack was not completely charged.

When you begin the charging process of the battery pack, a steady red light could also mean the battery pack is too hot or too cold.

Fast charging is only possible when the temperature range of the battery pack is between 32F (0C) and 113F (45C). When needed, the internal fan of the charger will turn on to aid the charging process and speed.

As soon as the battery pack reaches the correct temperature range, the battery charger will automatically switch to fast charging.

If the red indicator light is ”BLINKING”, the battery pack cannot accept a charge.

- Check to make sure the battery pack is inserted to the charger properly.
- Clean the contacts of the charger or battery pack (e. g. by inserting and removing the battery several times) or replace the battery pack as required.

When the battery pack is fully charged, unplug the charger (unless you’re charging another battery pack) and install the battery pack back into the tool.
INSTALLING A BATTERY

1. Hold the tool firmly with one hand.

2. Using your other hand, insert the battery into the tool with a sliding motion.

3. Firmly push the battery until fully seated. When fully seated the battery locks in place.

   The Green indicator light will flash for approximately 5 seconds while the tool energizes. Once the light stops flashing the tool is ready for use.

4. To remove the battery press the Red release button on the battery and slide out.

   NOTE: The power indicator light on the top of the tool will flash Green indicating the battery has enough charge. If the indicator light flashes Red, charge the battery accordingly.

REPLACEMENT BATTERY & CHARGERS

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<td>220 VOLT</td>
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JOINT FORMATION & INSPECTION

An improperly formed joint, or a joint with an incorrect number of notches, could result in strap separation. Before moving any package, be certain that the joint is formed as shown in the illustration. If not, remove the strap and check the tool for worn or broken parts. Repair the tool before applying another strap. Failure to follow this procedure could result in serious injury or death. If you have questions regarding proper joint formation, contact your Signode Sales Representative.

Before making a double reverse notch seal joint, read this tool's Operation, Parts and Safety Manual. A properly formed double reverse notch joint will appear as shown in the illustration. Always use the correct number of seals recommended by your Signode Sales Representative.

If the double reverse notch joint does not appear as shown in the illustration, proceed as follows:

A. Review the tool's operating instructions to be certain that the tool is being operated properly before applying another strap.

B. Cut the strap off and apply a new strap and seal.

Tuck strap end back into the dispenser when not in use.
OPERATING INSTRUCTIONS

WARNING

Wear safety glasses and gloves. Stand to one side of the strap when sealing. Make sure all bystanders are clear before proceeding.

PLEASE NOTE: Do not operate tool without strap, as damage to the tool may occur.

1. Thread the strap from the dispenser through a Signode 114P or 114OF seal.

2. Bend the strap end backwards as shown.

3. Tension the strap as required. Refer to the strap tensioner manual for the proper use of the tool.

Encircle the bundle and rethread the strap end through the seal.

4. Position the sealer jaws over one end of the seal. Press the switch located on the handle grip. Once completed, move the sealer jaws to the other end of the seal and notch the seal a second time.

5. Once the second notch has been made the seal joint can be inspected and the strap tensioner can be removed.
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- When ordering parts please indicate tool model, part number and description.
- Recommended spare parts are underlined and should be stocked.
- Common hardware parts can be obtained at any local hardware supply.

** Use Loctite #222 (Purple) or equivalent.

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**WARNING**

Inspect all parts daily and replace them if they are worn or broken. Failure to do this can affect a product’s operation and could result in serious personal injury.
WARNING
Inspect all parts daily and replace them if they are worn or broken. Failure to do this can affect a product's operation and could result in serious personal injury.
WARNING
Inspect all parts daily and replace them if they are worn or broken. Failure to do this can affect a product’s operation and could result in serious personal injury.
ELECTRICAL SERVICE SUB-ASSEMBLIES

All of the service assemblies below (Keys 1 through 8) can be ordered together as Signode Part No. 800532.

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<td>800537</td>
<td>LED</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>800538</td>
<td>LED</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>800539</td>
<td>Motor</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td>800540</td>
<td>Metal Sensor</td>
<td></td>
</tr>
</tbody>
</table>

The following service items include wires and all connectors needed for replacement.
TROUBLESHOOTING GUIDES

1. TOOL DOES NOT OPERATE

- INSPECT THAT PROPER STRAP AND SEALS ARE BEING USED. INSERT A FULLY CHARGED BATTERY

- L.E.D. lights Green
  - Operate Tool. Does tool function?
    - YES → PASS
    - NO
      - Are the jaws centered properly over seal?
        - YES → PASS
        - NO → Re-Test. Does tool function?
          - YES → PASS
          - NO
            - Repair or replace battery Contact Plate (800005)
              - YES → Operate Tool. Does tool function?
                - YES → PASS
                - NO → Contact authorized Signode repair center.
              - NO → Place battery back on charger and note charging light indicators. Red Flashing: Replace Battery. Green Flashing: Charging
            - NO
              - Remove side covers and inspect the tool for broken wires. Repair as needed

- L.E.D. does not light
  - Remove battery and inspect connection terminals. Terminals appear damaged?
    - YES → Repair or replace battery Contact Plate (800005)
      - YES → Operate Tool. Does tool function?
        - YES → PASS
        - NO → Contact authorized Signode repair center.
      - NO → Remove side covers and inspect the tool for broken wires. Repair as needed
    - NO
      - Battery is not charged enough to operate tool.
        - Place battery back on charger and note charging light indicators. Red Flashing: Replace Battery. Green Flashing: Charging

- L.E.D. flashes Red
  - Diagnostic error on tool self-check sequence.
    - YES → Review troubleshooting flowchart
    - NO
      - Is there a seal and strap stuck in the sealer jaws?
        - YES → Operate Tool. Does tool function?
          - YES → PASS
          - NO → Contact authorized Signode repair center.
        - NO
          - Remove battery. Remove side covers and inspect the tool for broken wires. Also inspect metal sensor for signs of damage. Repair and replace parts as required. Metal Sensor (800292)

- L.E.D. light Red
  - Operate Tool. Does tool function?
    - YES → PASS
    - NO → Contact authorized Signode repair center.
TROUBLESHOOTING GUIDES

**TOOL OPERATES SLOW AND/OR POOR STRAP JOINT FORMATION**

1. **Tool operates slow.**
   - Operate Tool. Does tool make unusual sounds?
     - YES
       - Inspect the gear housing and jaw stack for worn parts, proper lubrication and smooth operation. Replace worn parts and lubricate tool if needed.
     - NO
       - Operate Tool. Does tool hesitate during the strap cycle?
         - YES
           - Worm gear link pin hole worn out. Move link pin to new location per maintenance instruction 88
         - NO
           - Battery possibly faulty or old. Replace battery.
     - NO
       - Battery possibly faulty or old. Replace battery.

2. **Cycles per battery charge decreases.**
   - Press TEST button on battery. Does battery pass?
     - YES
       - Operate Tool. Does tool function?
         - YES
           - PASS
         - NO
           - Contact authorized Signode repair center.
     - NO
       - Battery possibly faulty or old. Replace battery.

3. **Strap joints not formed.**
   - Inspect notchers and jaw for wear and/or chipped edges. All edges should be sharp.
     - YES
       - Repair or replace parts as required: Notcher (800266) Jaw (800245)
     - NO
       - Do parts appear worn?
         - NO
           - Repair or replace parts as required: Upper Jaw Pin (800244) Lower Jaw Pin (800267)
         - YES
           - Disassemble the jaw stack and inspect lower and upper jaw pins for wear. Do pins appear worn?
             - NO
               - Contact authorized Signode repair center.
             - YES
               - Repair or replace parts as required: Notcher (800266) Jaw (800245)

Contact authorized Signode repair center.
3. **TOOL DIFFICULT TO INSERT STRAP OR DIFFICULT TO REMOVE FROM STRAP**

**Inspection:**

- **Inspection:**
  - **Inspect that proper strap and seals are being used.**
  - **Insert a fully charged battery.**

**If difficult to insert strap:**

- **Did the tool finish a complete sealing cycle?**
  - **No:**
    - Manually open the sealer jaws per manual tool indexing maintenance instructions.
  - **Yes:**
    - **Sealer jaw coast time needs to be adjusted so jaws open wider.**
      - Review maintenance instructions for coast time adjustment.

**If tool appears to be stuck on strapping:**

- **Did the tool finish a complete sealing cycle?**
  - **Yes:**
    - **Battery charge possibly too low to complete cycle.**
      - Manually finish the sealing cycle per manual tool indexing maintenance instructions.
  - **No:**
    - **Test battery. Replace as required.**

**Operate Tool. Does tool function?**

- **Yes:**
  - **Pass.**
- **No:**
  - **Contact authorized Signode repair center.**
TOOL CYCLES CONSTANTLY

INSPECT THAT PROPER STRAP AND SEALS ARE BEING USED. INSERT A FULLY CHARGED BATTERY

Does the tool operate properly?

YES

PASS

Tool continues to run constantly.

Replace sealer jaw Snap Switch (800061)

Does the tool operate properly?

YES

PASS

Contact authorized Signode repair center.

NO

NO
# Troubleshooting - Indicator Lights

<table>
<thead>
<tr>
<th>Light Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>Battery properly charged.</td>
</tr>
<tr>
<td>Red</td>
<td>Operating error. Refer to tool troubleshooting.</td>
</tr>
<tr>
<td>Amber</td>
<td>Battery is too hot or cold to receive charge. Charging starts when the battery reaches the proper temperature.</td>
</tr>
<tr>
<td>Green</td>
<td>Battery is receiving a Quick Charge.</td>
</tr>
<tr>
<td>Red</td>
<td>Battery cannot accept a charge. Replace battery.</td>
</tr>
</tbody>
</table>

- Charger is plugged in and receiving power.
TOOL MAINTENANCE

GENERAL

The most common reason for poor tool performance and incorrectly formed straps joints is improper tool maintenance. The easiest way to determine if a tool is performing correctly is by inspecting the strap joint. Having a tool maintenance program is a simple task which consists of three parts. First, a quick daily inspection of the tool for any worn or broken parts. Secondly, keep each tool on a schedule of service intervals for cleaning and lubrication. Third, when problems do occur, use the troubleshooting guide to properly determine and fix problems before they lead to more serious tool conditions. Each of these three tasks have been outlined for this particular tool, read and understand all information for improving the life and performance of the tool.

TOOL INSPECTION

Visually inspect the exterior of the tool on a daily basis. Decreased tool life can be prevented by early detection of broken parts. Replace all broken parts with new parts. Review any part removal, replacement & adjustment instructions found in this manual.

SERVICE INTERVALS

Tool component wear is affected by the environment, strap/seal quantity and strap gauge which the tool is subjected to. All critical moving components of the tool should be inspected periodically. Broken parts can increase sealing effort, leading to additional component wear and produce lower joint strength.

Inspect the components of the sealing mechanism when:

A. Joint does not appear as shown in this manual or visually it is detected that the joint is not all formed or formed improperly.
B. Sealing effort seems sluggish or tool is difficult to remove from strap.
C. The number of cycles from one battery charge decreases.
D. When scheduled.

⚠️ WARNING

If there is any question that joint formation is not as shown or is suspect, it is important that you contact your tool representative immediately.

TOOL LUBRICATION

Signode tools use a variety of greases and oils, all of which can be ordered through Signode. When ordering indicate tool model, part number and name.

THREAD SEALANTS

Signode tools are assembled using a variety of thread sealants, all of which can be ordered through Signode service using the appropriate description and part number.

- Loctite #222 (Purple), Part No 422794.
MAINTENANCE PROCEDURES - COAST TIME ADJUSTMENT

1. Remove the battery from the tool.
2. Locate the coast-time adjustment screw located in the battery compartment.
3. Turn the adjustment screw clockwise to increase coast time (wider jaws). Turn the adjustment screw counter-clockwise to decrease coast time (narrow jaws).

   GRIPPACK 100: Optimum jaw opening is 1.0" (25mm).

   GRIPPACK 114: Optimum jaw opening is 1.4" (36mm).

Make the coast time adjustments in small increments and test the tool in between each adjustment.

100 Series: 1.0" (25mm)
114 Series: 1.4" (36mm)
1. Remove the tool battery. Remove the mounting screws which secure the rubber boot to the tool. Remove boot.

2. Continue to remove the right-hand side plate to access the eccentric pin.

3. Lift off the link which connects the eccentric pin to the sealer jaws.

4. Mark the location of the eccentric pin on the face of the gear housing cover.

5. Lift the eccentric pin out from the tool.

6. Manually turn the gear housing drive assembly until the next eccentric hole lines up with the mark (approximately 120 degrees).

7. Lubricate and reinsert the eccentric pin into the new mounting hole (at marking). Reassemble the tool by reversing these instructions.
MAINTENANCE PROCEDURES - MANUAL INDEXING

Use the procedure below to manually index the tool. This is a procedure used for cycling the tool for general maintenance and/or incomplete strapping cycles.

For bench maintenance:

1. Remove the battery from the tool.
2. Pull back the rubber boot to expose the front of the gear housing.
3. Using a 6mm allen wrench, rotate the gear assembly clockwise to open and close the sealer jaws.

For incomplete strap cycles:

1. Remove the battery from the tool.
2. Pull back the rubber boot to expose the front of the gear housing.
3. Using a 6mm allen wrench, rotate the gear assembly clockwise to open the sealer jaws. Continue rotating the gear housing until the tool releases from the strap.
4. Cut off and discard strap.
5. Inspect tool for problem conditions and battery for proper charge.
MAINTENANCE PROCEDURES - CYCLE COUNTER

Use the following procedure to access the cycle count of the tool. This is the total number of times the tool has been operated and can aid in diagnosing problems or service schedules.

The tool counts from 0 to 999,999. The counter displays the number of tool cycles by flashing the Indicator Light LED with an approximate 2 second delay between digits (LED does not illuminate). The counter will always display 6 digits even if some digits are leading zeros.

1. Remove battery from tool.

2. Insert battery while holding the operation trigger button for approximately two seconds. LED will flash 1 time indicating the button is working correctly.

3. Wait a few moments.

4. Cycle counter codes begin to be displayed as follows. Example, a tool that has run 1253 complete cycles.

<table>
<thead>
<tr>
<th>0</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>5</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST DIGIT</td>
<td>SECOND DIGIT</td>
<td>THIRD DIGIT</td>
<td>FOURTH DIGIT</td>
<td>FIFTH DIGIT</td>
<td>SIXTH DIGIT</td>
</tr>
</tbody>
</table>

Individual digits are displayed as follows:

<table>
<thead>
<tr>
<th>Digit</th>
<th>LED Flash</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>On 1.5 seconds</td>
</tr>
<tr>
<td>1</td>
<td>Once</td>
</tr>
<tr>
<td>2</td>
<td>Twice</td>
</tr>
<tr>
<td>3</td>
<td>Three times</td>
</tr>
<tr>
<td>4</td>
<td>Four times</td>
</tr>
<tr>
<td>5</td>
<td>Five times</td>
</tr>
<tr>
<td>6</td>
<td>Six times</td>
</tr>
<tr>
<td>7</td>
<td>Seven times</td>
</tr>
<tr>
<td>8</td>
<td>Eight times</td>
</tr>
<tr>
<td>9</td>
<td>Nine times</td>
</tr>
</tbody>
</table>

Once the cycle counter terminates the Operation Button LED will flash rapidly for one second. Now the tool is ready to operate normally.

The cycle counter procedure can be terminated at any time by pressing the trigger button.
EU Declaration of Conformity
The Supply of Machinery (Safety) Regulations

It is hereby declared that the undermentioned machinery has been designed and constructed to comply with the health and safety requirements defined in EC Directives 2006/42/EC, 2006/95/EC and 2004/108/EC.

Machine Supplier: Signode
3700 West Lake Avenue
Glenview, IL 60026 U.S.A.

Place of Declaration: U.S.A.

Declaration Date: 1 March, 2013

Machine Description: Grippack

Machine Type: Battery Powered Hand Tool

Provisions with which machine complies:

2006/42/EC
2006/95/EC
2004/108/EC

Harmonized EuroNorms with which machine complies:

EN 60204-1:2006
EN ISO 12100:2010
EN ISO 14121-1:2007
EN 13849-1
EN 349
EN 61000-6-2:2005
EN 61000-6-4:2005

Technical Standards with which machine complies: NA

EC Authorized Representatives:

Tim Dunlavy
Manufacturing Manager
Signode
3700 West Lake Avenue
Glenview, IL 60026 U.S.A.
Phone 800-323-2464

G. S. Leine
Product Support Manager
Signode Europe
Westring 13, 40721
Hilden Germany
Phone 49-2103-96067-0
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Thank you for your help.

SIGNODE ENGINEERED PACKAGING SOLUTIONS
Hand Tool Division
3700 W. Lake Avenue, Glenview, Illinois 60026

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