

## Fein 90801029002

# FEIN 90801029002 Balancer User Manual

Model: 90801029002

## INTRODUCTION

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The FEIN 90801029002 Balancer is a precision tool designed to provide constant tension and support for suspended loads, enhancing safety and efficiency in various industrial applications. This balancer is engineered to handle variable loads from 10 kg to 14 kg, with a factory setting of 12 kg, and offers a maximum stroke of 2 meters. It features a durable, tear-resistant steel wire cable for reliable performance. This manual provides essential information for the safe and effective operation, setup, maintenance, and troubleshooting of your FEIN Balancer.





**Figure 1:** The FEIN 90801029002 Balancer. This image shows the orange-cased balancer unit with a steel wire cable extending downwards, terminating in a hook. A safety cable with a carabiner is attached to the top for secure mounting.

## SAFETY INFORMATION

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Always adhere to the following safety guidelines to prevent injury and damage to the equipment:

- Read and understand all instructions before operating the balancer.
- Ensure the balancer is securely mounted to a suitable overhead structure capable of supporting the balancer's weight plus the maximum load.
- Do not exceed the maximum load capacity of 14 kg. Overloading can lead to equipment failure and serious injury.
- Regularly inspect the steel cable for signs of wear, fraying, kinks, or damage. Replace immediately if any damage is observed.
- Ensure all connections, including hooks and carabiners, are properly secured before use.
- Do not attempt to disassemble or repair the balancer yourself. Refer to qualified service personnel.
- Keep hands and clothing clear of moving parts during operation.
- Use appropriate personal protective equipment (PPE) as required by your workplace safety regulations.

## SETUP

1. **Unpacking:** Carefully remove the balancer from its packaging. Inspect for any shipping damage.
2. **Mounting Location:** Select a mounting point that is structurally sound and can safely support the balancer's weight (3.2 kg) plus the maximum intended load (up to 14 kg). The mounting point should allow for the full 2-meter stroke of the cable.
3. **Installation:**
  - Attach the balancer securely to the overhead mounting point using the integrated safety cable and carabiner. Ensure the carabiner is fully closed and locked.
  - Verify that the balancer hangs freely and is not obstructed by surrounding structures.
4. **Load Attachment:** Attach the tool or load to the hook at the end of the balancer's steel cable. Ensure the load is centered and securely fastened to prevent swinging or accidental detachment.
5. **Load Adjustment (if necessary):** The balancer has a variable load capacity of 10-14 kg, with a factory setting of 12 kg. If your load is outside this range or requires fine-tuning, consult the specific adjustment instructions provided with the balancer or contact FEIN support.

## OPERATING INSTRUCTIONS

The FEIN Balancer is designed for ease of use, providing constant tension to reduce operator fatigue and improve efficiency.

- **Engaging the Load:** Once the tool or load is attached, the balancer will automatically adjust to the weight, providing constant upward tension.
- **Movement:** Gently pull the attached tool or load downwards to the desired working position. The balancer will hold the tool at that position with minimal effort from the operator.
- **Retraction:** When the tool is released, the balancer will smoothly retract the tool back to its original elevated position. Do not allow the cable to retract uncontrolled; guide the tool back to prevent sudden movements.
- **Cable Management:** Ensure the cable retracts smoothly without kinks or tangles. Avoid sudden releases that could cause the cable to snap back rapidly.

## MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your FEIN Balancer.

- **Daily Inspection:** Before each use, visually inspect the entire balancer, especially the steel cable, hook, and mounting points, for any signs of wear, damage, or corrosion.
- **Cable Condition:** Pay close attention to the steel cable. Look for fraying, broken strands, kinks, or deformation. A damaged cable must be replaced immediately by a qualified technician.
- **Housing and Components:** Check the balancer housing for cracks or damage. Ensure all screws and fasteners are tight.
- **Cleaning:** Keep the balancer clean and free from dust, dirt, and debris. Wipe down the exterior with a clean, dry cloth. Do not use harsh chemicals or solvents.
- **Lubrication:** Internal components are typically pre-lubricated and sealed. Do not attempt to lubricate internal parts unless specifically instructed by FEIN.
- **Professional Servicing:** It is recommended to have the balancer professionally inspected and serviced annually by an authorized FEIN service center to ensure optimal performance and safety.

## TROUBLESHOOTING

This section addresses common issues you might encounter with your balancer.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Balancer not holding load or retracting slowly.	Load exceeds balancer capacity; internal spring weakened; cable friction.	Verify load is within 10-14 kg range. If not, use a higher capacity balancer. Contact service for internal spring issues. Check cable for obstructions.
Cable does not retract fully.	Cable tangled or obstructed; internal mechanism issue.	Inspect cable path for obstructions. Gently guide cable. If issue persists, contact service.
Unusual noises during operation.	Internal component wear or damage.	Discontinue use immediately and contact an authorized service center.
Cable appears frayed or damaged.	Normal wear and tear; improper use; sharp edges.	<b>Do not use.</b> Replace the cable or have the unit serviced by a qualified technician. Ensure no sharp edges are contacting the cable during operation.

For issues not listed above or if solutions do not resolve the problem, please contact FEIN customer support or an authorized service center.

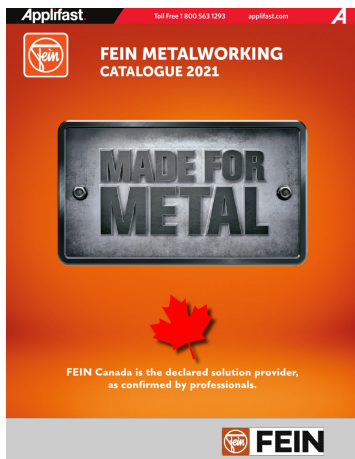
## SPECIFICATIONS

Feature	Detail
Model Number	90801029002
Brand	FEIN
Load Capacity	Variable 10-14 kg (Factory setting: 12 kg)
Maximum Stroke	2 meters
Cable Type	Tear-resistant steel wire cable
Product Dimensions (L x W x H)	9.06 x 16.93 x 5.51 inches
Weight	3.2 kg (7.05 Pounds)
ASIN	B00366246S
Date First Available	January 29, 2013

## WARRANTY AND SUPPORT

FEIN products are manufactured to high-quality standards and undergo strict quality control. For information regarding warranty coverage, please refer to the warranty card included with your product or visit the official FEIN website. For technical support, spare parts, or service inquiries, please contact FEIN customer service or an authorized FEIN service center. Always provide your product's model number (90801029002) and serial number (if applicable) when seeking support.

**FEIN Official Website:** [www.fein.com](http://www.fein.com)



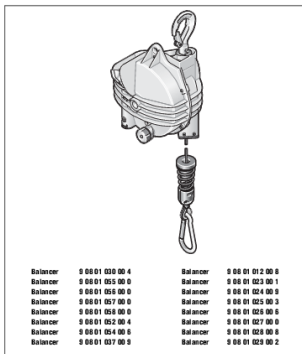
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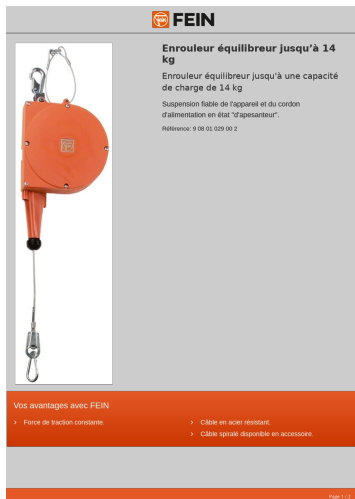


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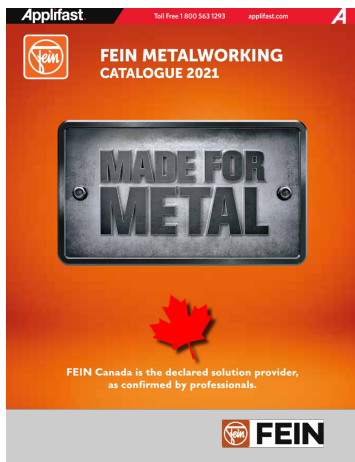


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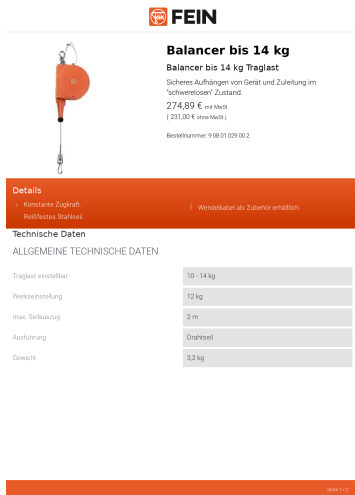
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