

IA-JB-60T Product Manual

Model: IA-JB-60T (Telescoping Series)

Brand: IRON ATTACHMENTS™

Document: IA-JB-60T-PRODUCT MANUAL.pdf

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1. Introduction & Engineering Compliance

The **IA-JB-60T** is a professional-grade, telescoping forklift jib designed for high-capacity lifting and extended reach. It is engineered for mechanical lifting environments to eliminate unsafe, improvised lifting of suspended or awkward loads. By extending reach without sacrificing control, this attachment enables precise placement while reducing equipment damage and liability exposure in demanding industrial applications.

- **Compliance:** Meets OSHA and ASME B30.20 & BTH-1-2023 requirements and safety standards.
- **Design standards:** Adheres to **ASME BTH-1-2023** (Design of Below-the-Hook Lifting Devices) to ensure structural integrity under dynamic loading.
- **Country of origin:** Manufactured in the **USA**.

2. Technical Specifications

| Specification | Value |
|---------------------|---|
| Model | IA-JB-60T |
| Weight | 465 lb |
| Hook positions | 9 (4 fixed boom, 5 telescoping boom) |
| Load center range | 24–144 in (2–12 ft) |
| Length retracted | 102.75 in (8 ft 6.75 in) |
| Length extended | 150.75 in (12 ft 6.75 in) |
| Width | 3 ft 3 1/2 in |
| Height | 11.5 in |
| Fork pocket ID | 7.63 in (W) x 3.63 in (H) |
| Fork pocket length | 44 in |
| Fork pocket spacing | 30 in nominal (Center-to-Center) |
| Adjustable range | 22.38 in (min) – 37.63 in (max) |
| Fork retention | Dual retaining pins with tethered leash |
| Safety retention | Safety chain with locking mechanism |
| Finish | Premium Plascoat®, Anthracite Grey |

3. Structural Capacity Table

The table below defines the **structural limits** of the IA-JB-60T attachment.

| Hook position | Load center (in) | Max load (lb) | H. COG (in) | V. COG (in) |
|---------------|------------------|---------------|-------------|-------------|
| 1 | 24 | 6000 | 38.27 | 1.29 |
| 2 | 48 | 6000 | 38.27 | 1.29 |
| 3 | 66 | 6000 | 38.27 | 1.29 |

| Hook position | Load center (in) | Max load (lb) | H. COG (in) | V. COG (in) |
|---------------|------------------|---------------|-------------|-------------|
| 4 | 84 | 6000 | 38.27 | 1.29 |
| 5 | 96 | 5800 | 38.27 | 1.29 |
| 6 | 108 | 5000 | 41.76 | 1.29 |
| 7 | 120 | 3800 | 44.98 | 1.29 |
| 8 | 132 | 2700 | 48.19 | 1.29 |
| 9 | 144 | 2100 | 51.41 | 1.29 |



CRITICAL WARNING: These figures represent the attachment's structural capacity only. They **do not** reflect the safe lifting capacity of the host forklift. Adding an attachment reduces forklift capacity significantly.

3.1 Obtaining De-Rated Capacities

Official "New Down-Rated Capacity" for any lift truck must be obtained from the lift truck manufacturer.

To estimate net capacity for a specific configuration, use the digital **Load Capacity Calculator**.

- Scan the QR code on the **Technical Hub** label or the **Load Chart** label.
- Follow the calculator instructions for configuration and operating guidance.

4. Installation & Operational Safety

4.1 Installation

1. **Insert forks:** Insert forklift tines fully into the 44" pockets until the rear of the jib contacts the back of the forks.
2. **Locking pins:** Install the dual retaining pins behind the heel of each fork and secure with the tethered security clips.
3. **Safety chain:** Wrap the safety chain around a structural part of the forklift carriage. Keep the chain as level as possible (angle < 45°). Secure with the locking grab hook.
4. **Verification:** Do not operate without **both** retaining pins and the safety chain properly installed.

4.2 Operating Rules

- **Vertical lift only:** Booms are designed for vertical lifting only. Do not pull, drag, or side-load objects.
- **Pinch point awareness:** Maintain awareness of pinch points during retraction. Keep hands clear of the telescoping interface.
- **Boom extension:** The telescoping boom includes an internal end stop to prevent over-extension and accidental fall-out.
- **Hydraulic lockout:** Disable any carriage tilting or side-shifting functions during jib operation to prevent dynamic load shifts.
- **Personnel safety:** Maintain a minimum 10-foot fall zone in all directions around the load. Never carry or lift personnel.

5. Inspection & Maintenance

Inspect before every use:

- **Structural:** Check for excessive wear, cracked paint, or broken welds along all structural joints.

- **Hardware:**
 - Ensure all shackles, hooks, and pins are in good working condition.
 - **Inner boom end plate:** Visually inspect the two assembly screws on the end plate.
 - **Screw spec:** 1/2"-20 × 2" fully threaded, SAE Grade 8 steel with zinc yellow-chromate finish.
 - **Torque requirement:** Torque screws to **90 ft-lb**. Use red threadlocker for all end plate hardware installations.
 - **Decals:** Verify all labels are present and legible, including the **Load Chart**, **Technical Hub QR**, and **Pinch Point/Hardware** decals.
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6. Limited Warranty

IRON ATTACHMENTS™ provides the following warranty to the original purchaser:

- **3-year structural warranty:** Covers the main boom and fork pocket weldment against defects in workmanship or materials.
 - **1-year component warranty:** Covers hardware, including hooks, shackles, pins, and chains.
 - **Exclusions:** Misuse, accidental damage, normal wear and tear, or field repairs or alterations without prior written authorization.
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