

# Inverted Telescoping Arms Operation Instructions

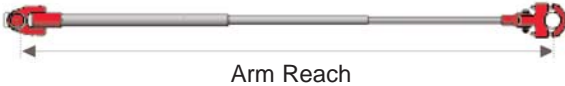
Rev 1.0 (10/30/12)



# Inverted Telescoping Arms Operation Instructions

**Introduction**

The Telescoping arm provides the operator full flexibility on the assembly line. Crafted with lightweight durable carbon fiber the arm collapses like a telescope. The easy-to-use arm requires little space and doesn't disrupt the flow of production. Can be mounted to a workbench or wall. The carbon fiber design provides for high level of rigidity and flexibility as well as being maintenance free. Inverted Telescoping Arms features a reinforced sleeve for long durability with higher



Model	Item #	Torque		Standard	Arm
		lbft.ft	N.m	Reach	Reach
EZ-70IT/1500	260175	51.6	70	26.2"	59"
EZ-70IT/2000	260176	51.6	70	32.8"	78.7"
EZ-70IT/2500	260177	51.6	70	39.4"	98.4"
EZ-120IT/1500	260178	88.5	120	27.2"	59"
EZ-120IT/2000	260179	88.5	120	33.7"	78.7"
EZ-120IT/2500	260180	88.5	120	40.3"	98.4"
EZ-200IT/1500	260181	147.5	200	36.2"	59"
EZ-200IT/2000	260182	147.5	200	46.1"	78.7"
EZ-200IT/2500	260183	147.5	200	55.9"	98.4"

# Inverted Telescoping Arms Operation Instructions

## Installation and Maintenance Recommendations for the Telescoping Arms

1. Make sure that the carbon fiber tubes are not subject to impact when the arm is in use.
2. The telescoping arms should not be used at maximum arm reach on a permanent basis.
3. Check that there is no excessive play in the clamp/yoke link (see Fig 1).
4. To maximize the dispersion of the torque reaction, respect the following angle positioning (see Fig 2).
5. When the Telescoping Arm is installed at horizontal position, use the universal adapter delivered with the arm.

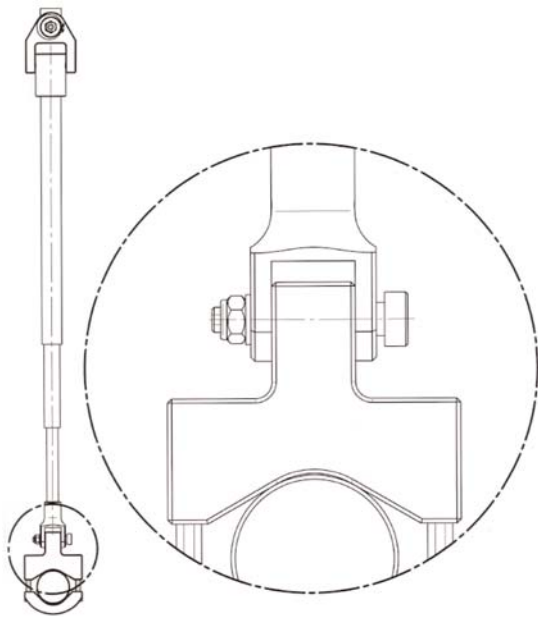


Fig 1

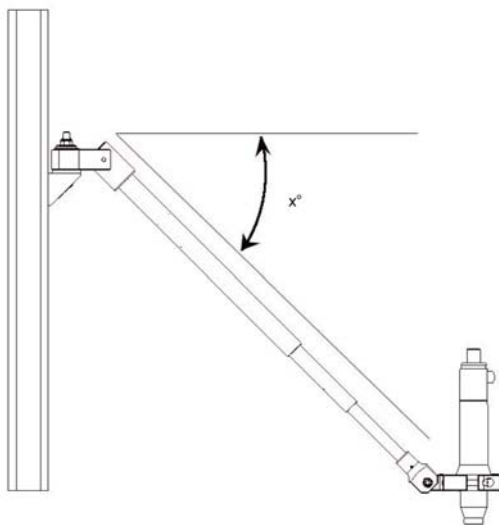


Fig 2

### Angle Positioning / Torque Reaction Force

Maximum 45 degree until 30 N.m

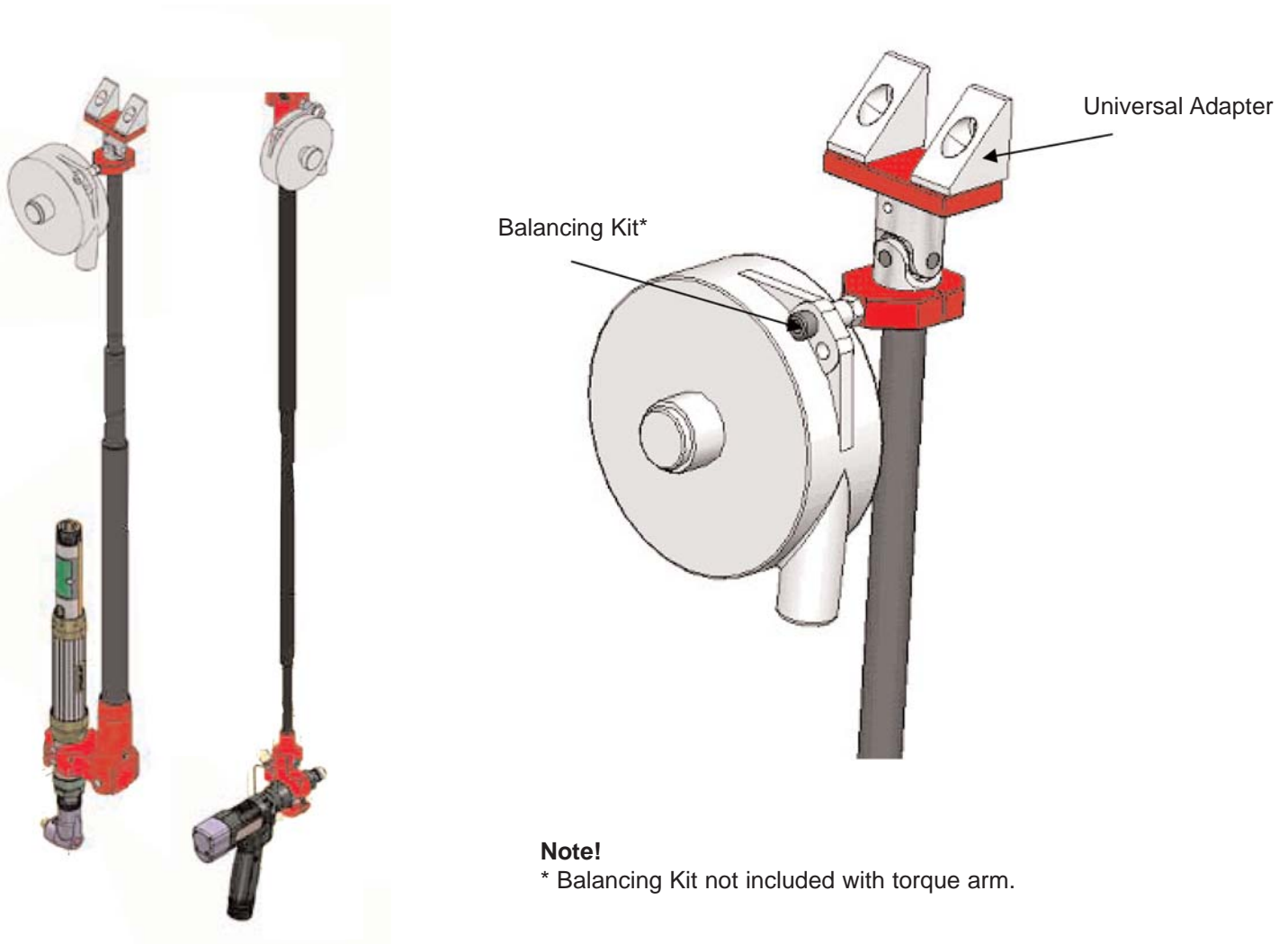
Maximum 30 degree from 30 N.m - 100 N.m

Maximum 20 degree over 100 N.m

# Inverted Telescoping Arms Operation Instructions

## Vertical Position on Fix Support

The universal adapter is not necessary anymore. Remove it and mount the arm directly on the support with a fastener or bolt. Due to the built-in swivel support, the telescoping arm will remain free to move.



# Inverted Telescoping Arms Operation Instructions

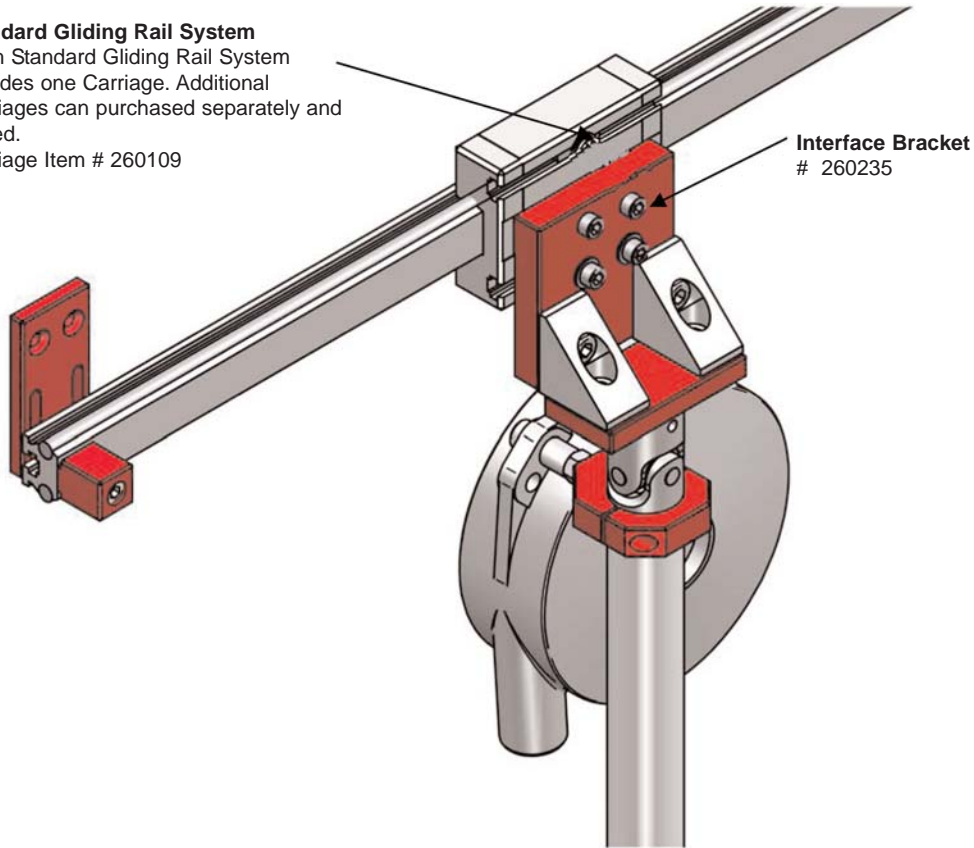
## Vertical Position on a Standard Gliding Rail System

The Telescoping Torque Arms can be mounted to the Standard Gliding Rail System (sold separately) and can be used in a variety of positions. For a vertical position it is necessary to install one additional item, an interface bracket (sold separately) along with a balancing kit (sold separately).

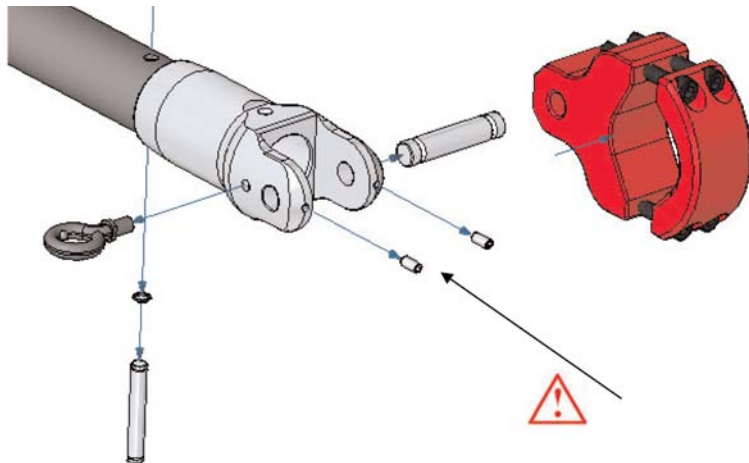
### Standard Gliding Rail System

Each Standard Gliding Rail System includes one Carriage. Additional Carriages can purchased separately and added.

Carriage Item # 260109



## Clamp Mounting



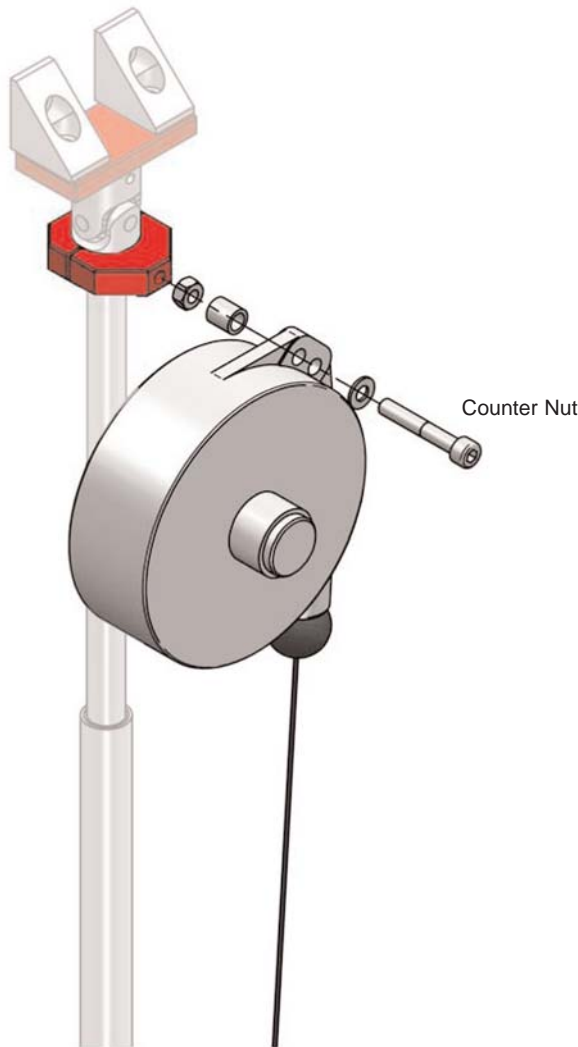
# Inverted Telescoping Arms Operation Instructions

## Accessory - Balancing kit

A balancing kit can be mounted on the side of any of the telescoping arms. It allows the arm to be used with pistol grip tools and angle nutrunners. **Note:** The telescoping arms should not be used at maximum arm reach on a permanent basis.

For Models	Item #	Balancer Capacity	Stroke
EZ-70IT, EZ-120IT & EZ-200IT	260190	4.4 to 8.8 lbs	78.75"
EZ-70IT, EZ-120IT & EZ-200IT	260191	8.8 to 13.2 lbs	78.75"
EZ-70IT, EZ-120IT & EZ-200IT	260192	13.2 to 17.6 lbs	78.75"

Installation of Balancer Kits with Telescoping Arms



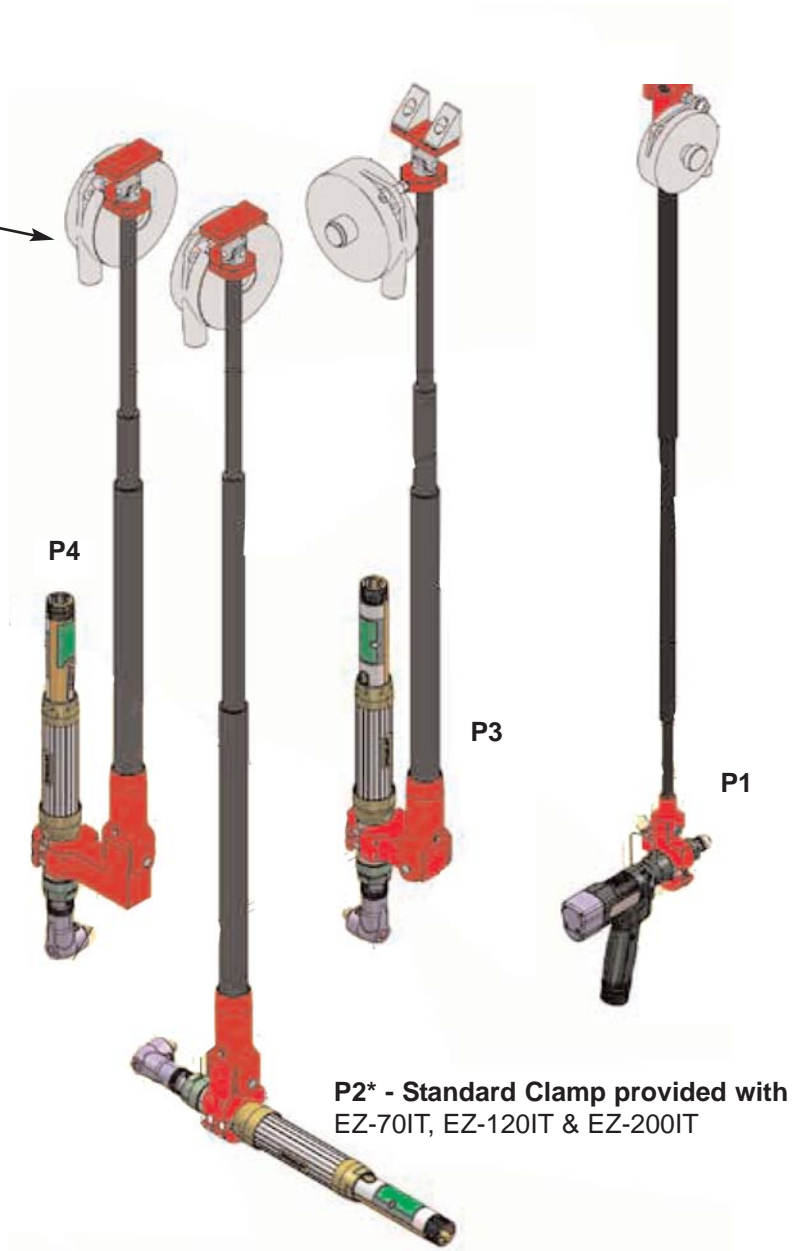
- Note:
- Make sure the balancer cable output is in line with the telescopes of the arm.
  - With the counter nut(s), make sure the balancer remains free.

# Inverted Telescoping Arms Operation Instructions

## Tool Positioning Options

Besides the standard in-line tool mounting position, the telescoping arm can be used with assembly tools in a variety of positions. For some tool positioning options, a different tool clamp needs to be order separately (See page 8).

Balancing Kit not included with torque arm



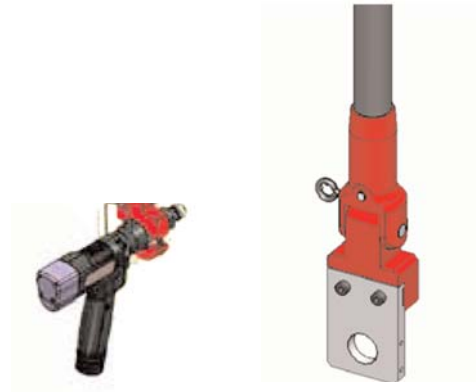
# Inverted Telescoping Arms Operation Instructions

### Tool Positioning Options (Continued)

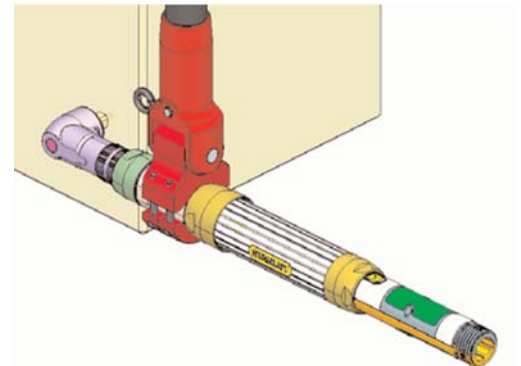
Besides the standard in-line tool mounting position, the telescoping arm can be used with assembly tools in a variety of positions. For some tool positioning options, a different tool clamp needs to be order separately. **P2\* - Standard Clamp provided with** EZ-70IT, EZ-120IT & EZ-200IT.

#### P1: Order Clamp

EZ-70IT Models #260184  
 EZ-120IT & EZ-200IT Models #260187



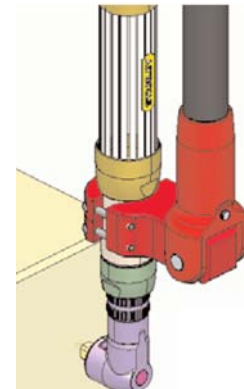
#### P2\* - Standard Clamp provide



#### P3: Order Clamp

EZ-70IT Models #260185  
 EZ-120IT Models #260188  
 EZ-200IT Models \*\*On Request

\*\*Must provide information (Brand & Model) on each tool being used with the arm. The clamp is custom made to fit the tool being used.





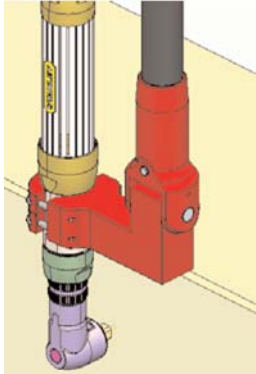
# Inverted Telescoping Arms Operation Instructions

**Tool Positioning Options (Continued)**

Besides the standard in-line tool mounting position, the telescoping arm can be used with assembly tools in a variety of positions. For some tool positioning options, a different tool clamp needs to be order separately. **P2\* - Standard Clamp provided with** EZ-70IT, EZ-120IT & EZ-200IT.

**P4: Order Clamp**

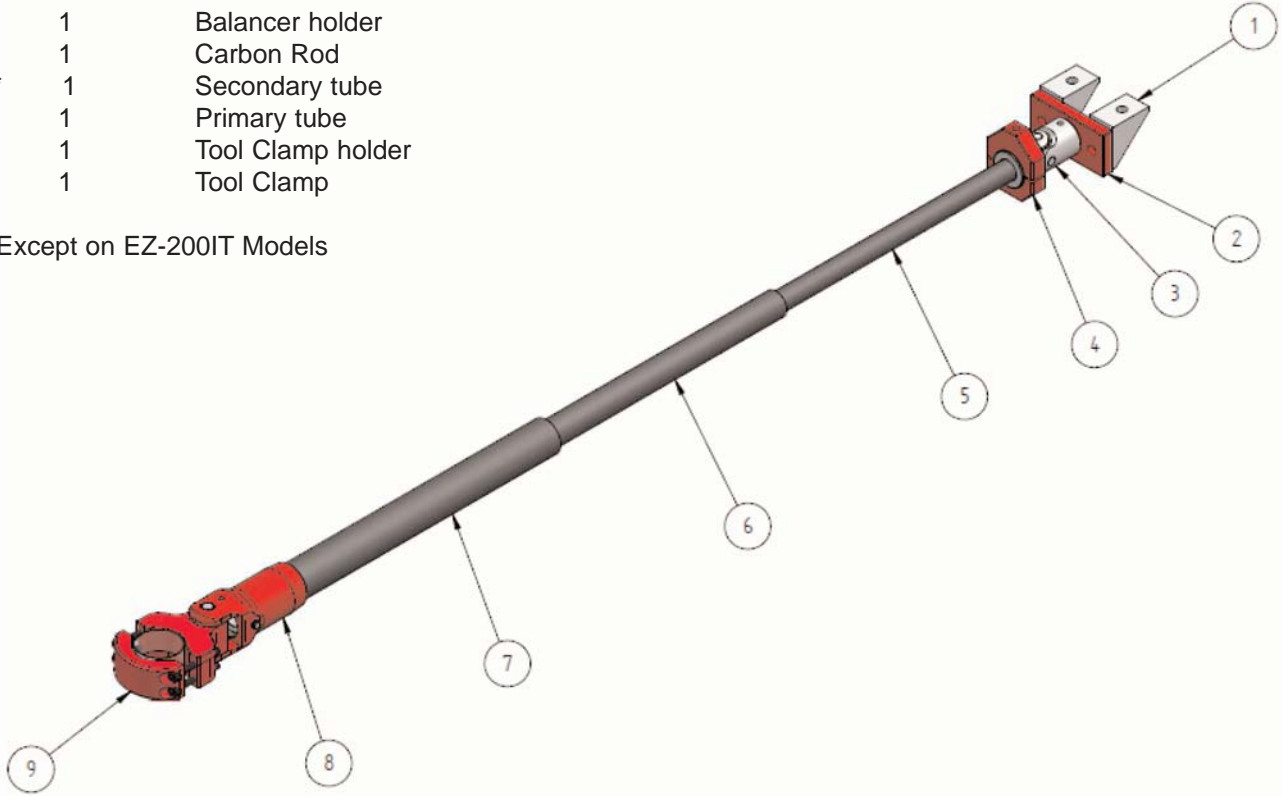
- EZ-70IT Models #260186
- EZ-120IT Models #260189
- EZ-200IT Models \*\*On Request



\*\*Must provide information (Brand & Model) on each tool being used with the arm. The clamp is custom made to fit the tool being used.

N°	Quantity	Designation
1	2	Universal adapter
2	1	Mounting plate
3	1	Gimbals
4	1	Balancer holder
5	1	Carbon Rod
6**	1	Secondary tube
7	1	Primary tube
8	1	Tool Clamp holder
9	1	Tool Clamp

\*\* Except on EZ-200IT Models





# Inverted Telescoping Arms Operation Instructions

## Testing Power Tools:

1. Application Method: Use a torque tester in "Peak Mode" with a rotary torque sensor between the power tool and the actual application. This is the best way to test since you are using the actual joint as the test station. You will see the actual torque applied to the fastener. **Caution:** Variances in tool performance may occur do to the addition of the rotary torque sensor.
2. Simulated Method: Always use a quality joint rate simulator (run down adapter) with a torque tester when testing power tools in a simulated application. Use Joint rate and Breakaway methods to obtain most accurate torque readings in a simulated rundown.

## Service

Mountz Inc. features an experienced calibration and repair staff. Our trained technicians can calibrate and repair most any tool. Mountz provides rapid service with quality that you can trust as we offer three state-of-the-art calibration lab and repair facilities that can calibrate up to 20,000 lbf.ft.

With over 45 years of experience, Mountz's in-depth knowledge of torque is reflected in our tool's craftsmanship and our ability to provide solutions to both common and uncommon torque applications. We perform calibrations in accordance with ANSI/NCSL-Z540. Mountz is dedicated solely to the manufacturing, marketing and servicing of high quality torque tools. Mountz is an ISO 9001 certified and ISO 17025 accredited company.

## Tool Service & Repair Capability

- Torque Wrench Calibration: Click Wrench, Dial Torque Wrench, Beam Wrench, Cam-Over & Break-Over Wrench
- Torque Screwdrivers: Dial, Micrometer, Preset & Adjustable
- Torque Analyzers/Sensors: All brands
- Electric Screwdrivers: All brands
- Air Tools: All brands  
Impact Wrenches, Drills, Pulse Tools, Grinders, Percussive Tools,  
Air Screwdrivers, Nutrunners, DC Controlled  
Nutrunners
- Torque Multipliers: All brands

## Mountz Torque Testers and Calibration Equipment

Torque tools go out of calibration with use. Calibrating a torque tool is a fine-tuning process of bringing the tool back within its tolerance. Torque testers can also be used for quick tools tests on the line or in the lab to determine whether torque tools are holding a given setting.

A regular torque tool calibration and re-calibration guarantees the operator repeatable accuracy and adherence to international standards. Torque testing also ensures torque equipment is operating to peak performance and can highlight potential tooling problems before they arise perhaps due to tool wear or broken components.

Controlling torque is essential for companies to ensure their product's quality, safety and reliability isn't compromised. The failure of a three-cent fastener that isn't properly tightened can lead to catastrophic or latent failures. Fasteners that are insufficiently torqued can vibrate loose and excessive torque can strip threaded fasteners. Using a quality torque tool has become increasingly important for many companies to ensure that proper torque is being applied and maintains gauge requirements associated with the ISO 9001 Quality Standard. Look for the Mountz hexagon logo - it's a stamp for quality tools, service and knowledge in the field of torque control.

## Mountz Service Locations

### Eastern Service Center

19051 Underwood Rd.  
Foley, AL 36535  
Phone: (251) 943-4125  
Fax: (251) 943-4979

### Western Service Center

1080 N.11th Street  
San Jose, CA 95112  
Phone: (408) 292-2214  
Fax: (408) 292-2733

[www.mountztorque.com](http://www.mountztorque.com)  
[sales@mountztorque.com](mailto:sales@mountztorque.com)

Download a "Service Form" and include a copy when you send the tools in to be serviced.

Looking for fasteners?

**mr.  
metric**<sup>®</sup>