

# EZ-Glider Linear Torque Arms Operation Instructions

*Rev 3.5 (July 31, 2012)*



# EZ-Glider Linear Torque Arms Operation Instructions

## Introduction

Prevents cross threading and side load. Keeps tool perpendicular.

Reduces RMI (Repetitive Motion Injury) and CTS (Carpal Tunnel Syndrome) while boosting production.

Extends in horizontal direction and arm length is adjustable.

Maneuvers smoothly as the arm absorbs torque reactions from electric & pneumatic screwdrivers.

Built with seasoned craftsmanship, every torque arm cylinder has four rows of ball bearings for smooth movement.

Provides tool suspension and balancing.

Includes an In-line Driver Clamp.

## Max Torque

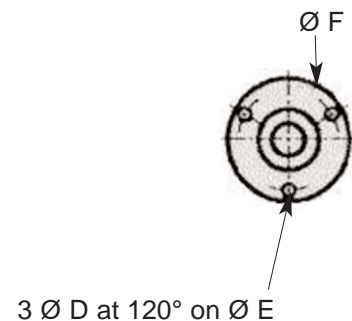
Model	Item #	lbf.ft	N.m	Clamp Dia.	Height	Min. Arm Reach	Max. Arm Reach	Balancer Capacity
EZ-12	260077	8.8	12	1 - 1 1/2"	32.5"	16 1/2"	22"	1.1 - 2.6 lbs
EZ-25	260078	18.4	25	1 - 2"	36.5"	16 1/3"	22"	2.2 - 4.8 lbs
EZ-40	260079	29.5	40	1 - 2"	40.5"	21 7/8"	29 1/2"	3.1 - 4.8 lbs
EZ-100	260080	73.7	100	1 - 2"	40.5"	25 1/3"	33"	4.4 -7.7 lbs

Note: An additional balancer (Item #260152) can be added to the EZ-40 & EZ-100 model to increase balancer capacity. The additional balancer increases the dual balancer capacity to 5.3 - 8.8 for the EZ-40, and 6.6 - 13.2 for the EZ-100.

## Mounting

1. Place the Foot (base) on a perfectly horizontal working surface and bolt it down (screws not included).
2. Make sure the Arm can move freely without obstruction or danger for the operators.

Model	Diameter E (mm)	Diameter D (mm)	Diameter F (mm)
EZ-12	65	8.5	78
EZ-25	65	8.5	78
EZ-40	100	8.5	118
EZ-100	126	10.5	148



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## Installation

1. After mounting the Foot and Pole, slide the "Red Cylinder Base" onto the Pole. The Eye Hook should be located topside.
2. There are attachment holes on the Red Cylinder Base. Align the Arm on the Red Cylinder Base. There are multiple Mounting Holes on the Arm. Attach Arm at desired working distance.
3. The Balancer should be attached to Top Bracket. Place Top Bracket on the top of the Pole. The Balancer should be aligned with the Eye Hook on the Red Cylinder Base.
4. Attach Balancer cable to the Eye Hook.

## Tool Clamp

The Tool Clamp is mounted on the chrome Slides using two CHC screws (Torque 6 N.m). Before mounting a tool in the Tool Clamp, make sure the Tool Clamp is securely screwed onto the chrome Slides to prevent the unintentional disengagement of the tool, which could injure the operator.

## Clamping a Tool in the Tool Clamp

1. Unscrew the two screws at the front end of the Tool Clamp using a suitable hexagonal head key.
2. Position tool in the Tool Clamp by clamping the lower section of the tool.
3. Moderately tighten the two screws until the tool is completely clamped.

Note: Excessive clamping can alter the function of the tool mounted on the arm.

Insufficient clamping will reduce or prevent the arm from operating properly.

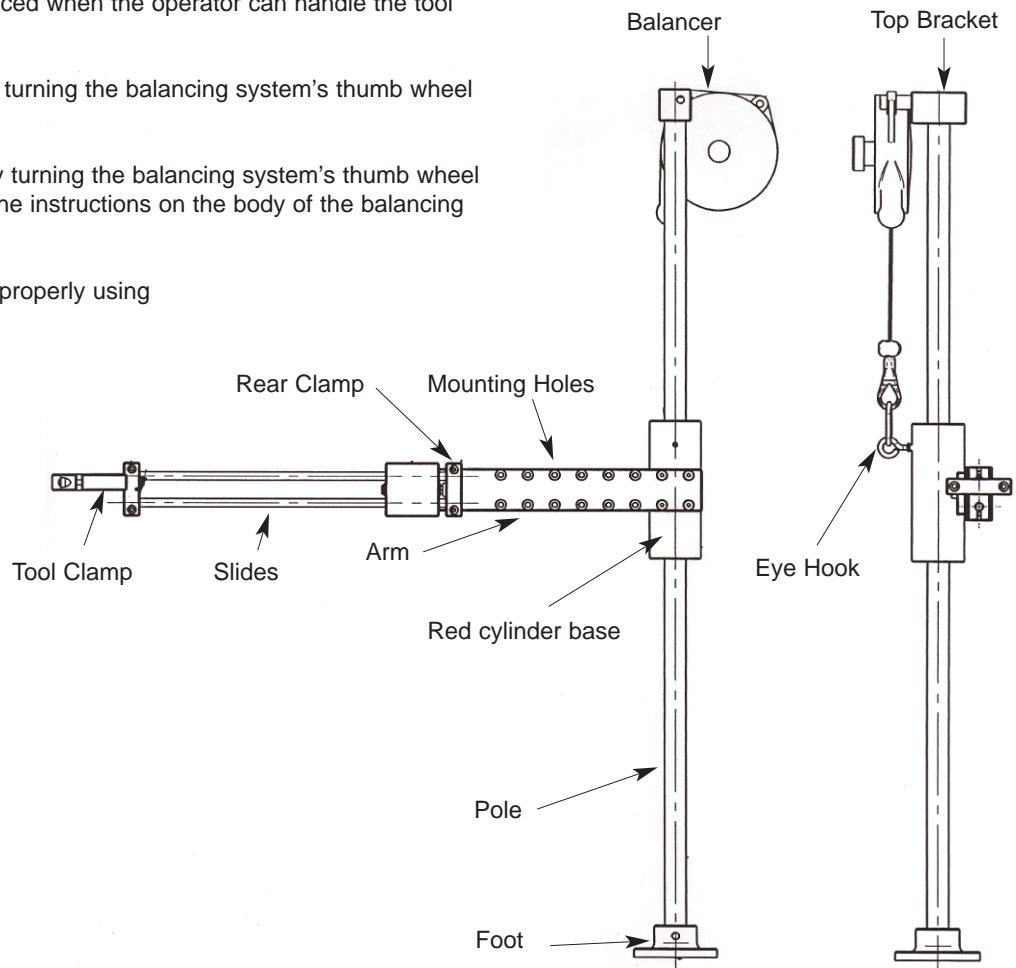
## Adjusting the Balancing System

The effective load at the end of the arm determines the strain of the balancing system. The load is correctly balanced when the operator can handle the tool effortlessly.

A decrease in strain is obtained by turning the balancing system's thumb wheel clockwise.

An increase in strain is obtained by turning the balancing system's thumb wheel counterclockwise. Please refer to the instructions on the body of the balancing system.

The cable travel must be adjusted properly using the rubber ball.



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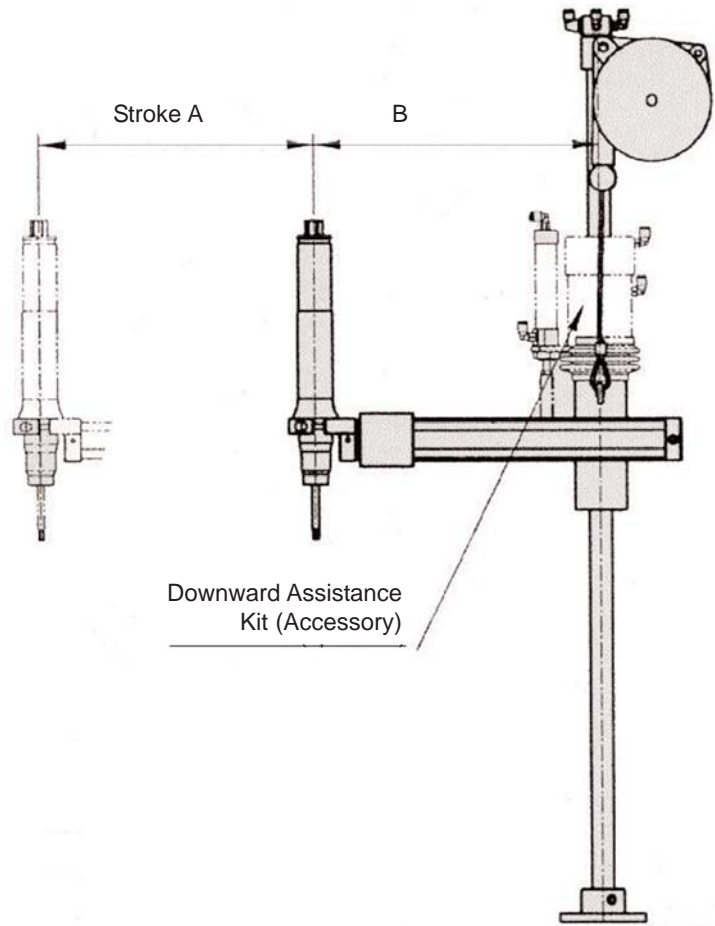
## Recommendations

1. Make sure the torque arm is never used above the torque values that it is designed for.
2. Never use the torque arm with effective loads at the arm end which exceed the manufacturer's recommendations.
3. The torque arms are designed for a working cycle of about 300,000 fastening operations without maintenance.
4. The torque arm's total travel (reach) must be taken into account before planning the workstation layout.
5. Make sure the torque arm's foot (base) is correctly attached and the work surface is stable.

## Maintenance

If the axes becomes difficult to slide:

1. Dismantle the Arm and chrome Slides. Dismantle the Red Cylinder Base.
2. Use a compressed air gun to clean the linear bearings.
3. Wipe the Sliding Bush and chrome Slides with a dry cloth.
4. Re-assemble the Torque Arm and check that the chrome Slides are correctly aligned and the tool is properly tightened.



## Overall Dimensions

Model	A	B	Height
EZ-12	9"	7.5 - 13"	32.5"
EZ-25	8"	8 - 14"	36.5"
EZ-40	11.5"	10 - 18"	40.5"
EZ-100	13"	12.4 - 20"	40.5"

# EZ-Glider Linear Torque Arms Operation Instructions

## Accessories

### Anti-Rotating Clamp

Attach an "Anti-Rotating Clamp" to prevent the arm from rotating side-to-side to help the operator target the screw quickly and precisely.

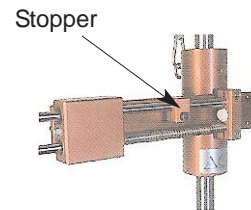
1. Detach the Balancer Cable from the Eye Hook. Remove the balancing system from the Pole.
2. Remove the Red Cylinder Base and Arm from the pole.
3. Put the Anti-Rotation Clamp onto the Pole. Attach the Red Cylinder Base and Arm on the pole.
4. Screw the Anti-Rotation device onto the rear part of the Arm (Mounting Holes).
5. Tighten the screws on the top and bottom (red bases) part of the Anti-Rotating Clamp to the Pole.
5. Reassemble the Balancing System to the Pole. Attach Balancer Cable to the Eye Hook.



### ARP System

ARP (automatic rest position): A recoil spring positioned on the Slide to permit the arm to come back to the rest position as soon as you release it.

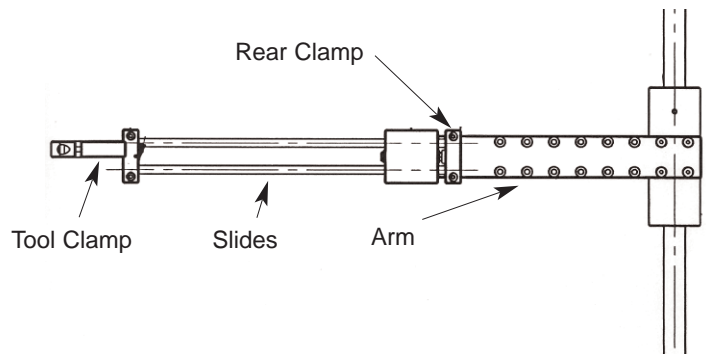
1. Loosen and remove the Rear Clamp from the Slides.
2. Disengage the Slides and Tool Clamp.
3. Insert the Spring and the Stopper of the ARP system.
4. Reassemble the Slides and Tool Clamp.
5. Firmly tighten the Rear Clamp, making sure that the slides are correctly aligned.



### Extension Slides

Expands the Maximum Arm Reach of the EZ-Glider Linear Arms.

1. Loosen and remove the Rear Clamp from the Slides.
2. Disengage the Slides and loosen the Tool Clamp.
3. Tighten the Tool Clamp onto the Extension Slides.
4. Reassemble the Slides and Tool Clamp.
5. Firmly tighten the Rear Clamp, making sure that the slides are correctly aligned.



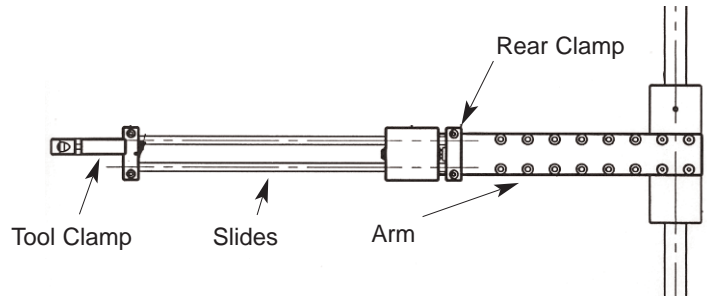
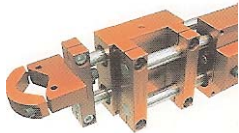
Extension Slides

# EZ-Glider Linear Torque Arms Operation Instructions

## Accessories

### Extension Double Slides

Expands the Maximum Arm Reach of the EZ-Glider Linear Arms by adding a second slide to the arm.



1. 

Remove Rear Clamp
2. 

Remove the original Slides

Double Slide
3. 

Remove the Rear Clamp
4. 

Position the Double Slide inside the two holes.
5. 

Attach the Rear Clamp back on.
6. 

Position the original Slides into the two holes of the "Double Slide"
7. 

Attach the Rear Clamp back on.



# EZ-Glider Linear Torque Arms Operation Instructions

## Testing Power Tools:

1. Application Method: Use a torque analyzer in "Peak Mode" with a rotary transducer 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 transducer.
2. Simulated Method: Always use a quality joint rate simulator (run down adapter) with a torque analyzer 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.

## Tool Service & Repair Capability

Torque Wrenches: Click, Dial, Beam, Cam-Over & Break-Over

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.  
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### Western Service Center

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Fax: (408) 292-2733

### Mexico Service Center

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Av. Cristobal Colon #15343  
Col. Paseos de Chihuahua  
Chihuahua, Chih. Mexico CP 31125  
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Download a "Service Form" and include a copy when you send the tools in to be serviced.

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