



ASSEMBLY SYSTEMS *2021*



For more than 50 years, AIMCO has been working with manufacturers around the world. We are the complete global source for all critical fastening and bolting solutions. AIMCO can effectively and swiftly meet your needs whether you're in Thailand fastening a 3 mm nut at 3 Nm, or in Tennessee, USA torquing the last lug nut. AIMCO provides the tools and solutions, on a global scale, that guarantee the success of your project. It is with great pride that AIMCO can say the products that we manufacture are **MADE IN THE USA.**

Screw Presenters: Overview

For semi-automated assembly, look no further – AIMCO's Acra-Feed screw presenters provide:

PRODUCTIVITY

- One hand operation eliminates manual handling of screws
- Screw is presented to operator for easy magnetic or vacuum pickup
- Keeps workspace clear of dropped fasteners
- Quick feed rate from oscillating hopper design – up to two (2) screws per second
- Large hopper holds approximately 1,000 – 1,500 fasteners
- Solid design – no tie downs or straps required

FLEXIBILITY

- Perfect for contract or dedicated assembly
- Switch rails in minutes for different screw sizes

ERGONOMICS

- Allows for fewer arm and hand movements

RELIABILITY

- Heavy duty industrial design
- Modular design for easy repairs

QUALITY

- Uses existing or our new torque control drivers
- Keeps stray fasteners from getting into assemblies



Acra-Feed® Screw Presenter

ACRA-FEED®

FASTENING IN 3 EASY STEPS



1 Load screws into the hopper. There is no side to load unit and no gates to limit capacity.



2 Address screw with magnetized bit.

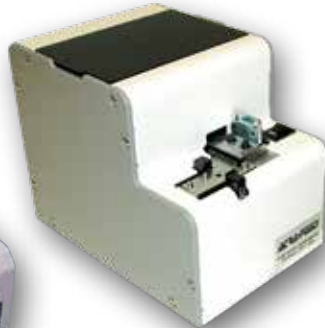


3 Bring screw to workpiece and fasten parts.

A-50 Screw Presenters



A-50BRBT-1
Robotic Screw
Presenter



A-50BRBTC-4
Compact Robotic Screw
Presenter



A-50B-1
Standard Screw Presenter

A-50 Standard Screw Presenters

| Model | Additional Rail Part No. | Screw Size | | Max Screw Length | |
|-----------|-----------------------------|------------|-----|------------------|----|
| | | IN | MM | IN | MM |
| A-50A-0 | AR-0 | #0 | 1.4 | .39 | 10 |
| A-50A-1.7 | AR-1.7 | - | 1.7 | .39 | 10 |
| A-50B-1 | BR-1 | #1 | 2.0 | .75 | 18 |
| A-50B-2 | BR-2 | #2 | 2.3 | .75 | 18 |
| A-50B-3 | BR-3 | #3 | 2.6 | .75 | 18 |
| A-50B-4 | BR-4 | #4 | 3.0 | .75 | 18 |
| A-50C-6 | CR-6 | #6 | 3.5 | .75 | 18 |
| A-50C-8 | CR-8 | #6-8 | 4.0 | .75 | 18 |
| A-50C-10 | CR-10 | #10 | 5.0 | .75 | 18 |

Dimensions: 5.1 (W) x 8.5 (L) x 5.3 (H) Weight: 7.0 lb.

A-50ARBT Robotic Screw Presenters

| Model | Additional Rail Part No. | Screw Size | | Max Screw Length | |
|--------------|-----------------------------|------------|-----|------------------|----|
| | | IN | MM | IN | MM |
| A-50ARBT-0 | AR-RBT-0 | #0 | 1.4 | .39 | 10 |
| A-50ARBT-1.7 | AR-RBT-1.7 | - | 1.7 | .39 | 10 |
| A-50BRBT-1 | BR-RBT-1 | #1 | 2.0 | .70 | 18 |
| A-50BRBT-2 | BR-RBT-2 | #2 | 2.3 | .70 | 18 |
| A-50BRBT-3 | BR-RBT-3 | #3 | 2.6 | .70 | 18 |
| A-50BRBT-4 | BR-RBT-4 | #4 | 3.0 | .70 | 18 |
| A-50CRBT-6 | CR-RBT-6 | #6 | 3.5 | .70 | 18 |
| A-50CRBT-8 | CR-RBT-8 | #6-8 | 4.0 | .70 | 18 |
| A-50CRBT-10 | CR-RBT-10 | #10 | 5.0 | .70 | 18 |

Dimensions: 5.1" (W) x 10.8" (L) x 5.3" (H) Weight: 9.2 lb.

A-50ARBTC Compact Robotic Screw Presenters

| Model | Additional Rail Part No. | Nominal Screw Size | | Max Screw Length | |
|---------------|-----------------------------|-----------------------|-----|------------------|----|
| | | IN | MM | IN | MM |
| A-50ARBTC-0 | AR-RBTC-0 | #0 | 1.4 | .390 | 10 |
| A-50ARBTC-1.7 | AR-RBTC-1.7 | - | 1.7 | .390 | 10 |
| A-50BRBTC-1 | BR-RBTC-1 | #1 | 2.0 | .700 | 18 |
| A-50BRBTC-2 | BR-RBTC-2 | #2 | 2.3 | .700 | 18 |
| A-50BRBTC-3 | BR-RBTC-3 | #3 | 2.6 | .700 | 18 |
| A-50BRBTC-4 | BR-RBTC-4 | #4 | 3.0 | .700 | 18 |
| A-50CRBTC-6 | CR-RBTC-6 | #6 | 3.5 | .700 | 18 |
| A-50CRBTC-8 | CR-RBTC-8 | #6-8 | 4.0 | .700 | 18 |
| A-50CRBTC-10 | CR-RBTC-10 | #10 | 5.0 | .700 | 18 |

Dimensions: 7.2 (L) x 4.9 (W) x 5.7 (H) Weight: 6.7 lb.

Optional Accessories for A-50 Screw Presenters

| Model | Part No. |
|--------------------------|--------------------------------|
| Mag-D-Net Bit Magnetizer | AM1/4Z, AM5Z, AM3/16Z, AM5/16Z |

WHICH TO USE...?

Standard Screw Presenters

For manual assembly stations where the operator must otherwise pick up and hold fasteners by hand.

Robotic Screw Presenters

For automated fastening systems or manual systems using vacuum assist to pick up non-ferrous fasteners.

Compact Robotic Screw Presenters

For automated systems, or manual systems, using vacuum-assist to pick up nonferrous fasteners when work space is limited.

Acra-Feed Automatic Screw Feed Systems

Reduces Cycle Time By Approximately Two Seconds Per Fastener

FEATURES AND BENEFITS

- Delivers fastener directly to the driver
- For #2 - #10 fasteners, up to 1 inch long
- Available for captive washer type screws (A315V)
- Feed speed of up to 1 screw per second
- System includes feeder, hose assembly, air screwdriver, and FRL

PRODUCTIVE

- Eliminates reaching for fasteners
- Most jams are easily cleared on the line
- Frees operator's hand for productive use
- Large hopper holds between 1,000 - 5,000 fasteners

ERGONOMIC

- Eliminates manual handling of fasteners and shavings
- Reduces workspace clutter
- Keeps workspace clean of dropped fasteners
- Torque reaction of standard driver is minimal and can be eliminated with optional Ergo-Arm

RELIABLE

- Longest warranty in the industry – 3 years
- Rocking Bar design only operates as needed
- "Photo eyes" maximize motor life
- Design eliminates burrs and shavings by minimal handling of the fastener
- Durable head assembly lasts for years
- There are more Acra-Feed systems in use than any other system



Acra-Feed Screw Feed Systems

| Model | Applicable Screws | Screw Length | | Hopper Capacity | Max Fastening Speed | Weight (Lb) | Dimensions L x W x H (In) |
|--------------|-------------------|--------------|------|----------------------------|---------------------|-------------|---------------------------|
| | | IN | MM | | | | |
| A2100 Series | M2-M5 (#2 - #10) | 1/4-1 | 6-25 | 1,500cc (1,000-5,000 pcs)* | 60 screws/min* | 68 | 7 x 17 x 16 |
| A315V Series | M2-M5 (#2 - #10) | 1/4-1 | 6-25 | 450cc (500-2,500 pcs)* | 60 screws/min* | 74 | 10 x 21 x 16 |

* Dependent on screw size

Delivery Hose: 10 ft Air Pressure: 85 psi Power: AC 110V, 20W, AC 220V by request. Contact AIMCO at 1-503-254-6600, or toll free 1-800-852-1368.

HOW TO ORDER: Acra-Feed systems are application-specific and configured to the unique workpiece and requirements of the user. Quotations are provided from a review of sample workpieces, 25 fasteners, and required torque specifications.



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AIMCO CORPORATE HEADQUARTERS

10000 SE Pine Street
Portland, Oregon 97216
Phone: (503) 254-6600
Toll Free: 1-800-852-1368

AIMCO CORPORATION DE MEXICO SA DE CV

Ave. Cristobal Colon 14529
Chihuahua, Chihuahua. 31125
Phone: (01-614) 380-1010
Fax: (01-614) 380-1019