



# TOOL SUPPORT SYSTEMS *2021*



**AIMCO**

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 Tennessee, USA fastening a 3 mm nut at 3 Nm, or in Denmark servicing wind-turbine bolts at 17,000 Nm. 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.**

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# TABLE OF CONTENTS

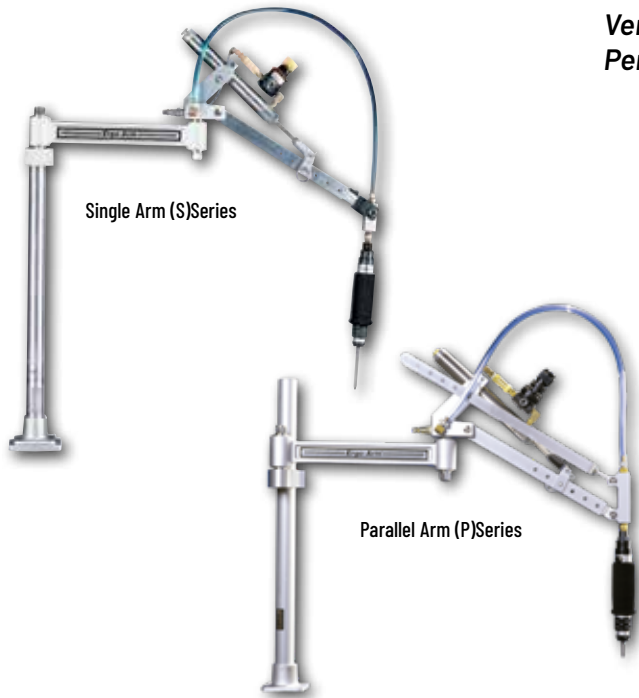
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## TOOL SUPPORT SYSTEMS

|  |           |
|--|-----------|
| Ergo Arms® . . . . .   | 4         |
| Linear Arms . . . . .  | 6         |
| Jib Arms . . . . .   | 7         |
| Carbon Torque Arms. . . . .                                  | 8         |
| Carbon Torque Tubes . . . . .                                | 11        |
| GCI Torque Reaction Arms . . . . .                           | 13        |
| GEN IV Smart Arm System with Process Visualization . . . . . | 16        |
| 3arm Zero Gravity Arms . . . . .                             | 18        |
| Support System Tool-Mounting Options . . . . .               | 23        |
| Workstation Components And Assemblies . . . . .              | 24        |
| Balancers / Retractors. . . . .                              | 26        |
| Air Preparation Units . . . . .                              | 28        |
| Air Line & Accessories. . . . .                              | 29        |
| <b>Index.</b> . . . . .                                      | <b>31</b> |

# Ergo Arm Tool Support Systems

## ERGO ARMS



**Versatile Ergo Arms Absorb Torque Reaction while Perfectly Balancing Tool Weight**

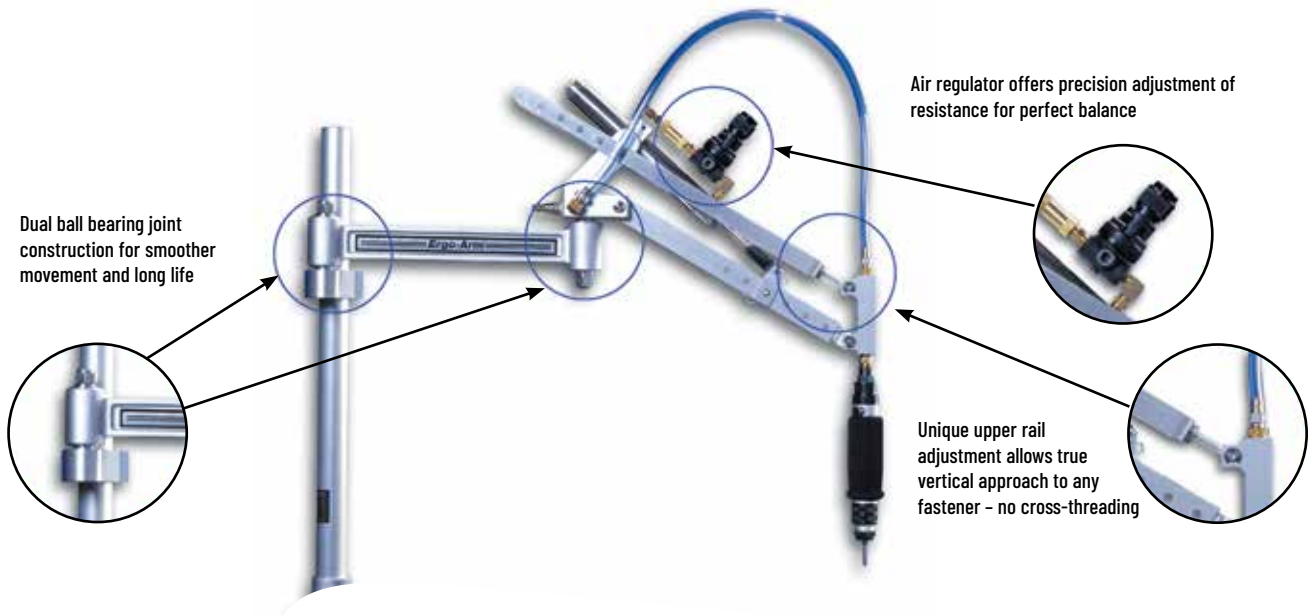
AIMCO's Ergo Arms reduce operator fatigue for electric and pneumatic tools. The versatile, easy-to-assemble kits include both single and parallel rails for customizing tool rigidity to the customer's preference.

The durable, lightweight construction provides minimal resistance and low inertia during high-cycle use. The adjustable height, length, and elbowed joint increases accessibility with minimal travel to the fastening application.

### Tools recommended for use with this arm:

- AcraDyne 1000 and 2000 Series
- Uryu LT Series Pneumatic Screwdrivers
- Electra Electric Screwdrivers
- Inline Tools

## SPECIAL FEATURES OF ERGO ARMS



# Ergo Arm Tool Support Systems

## ERGO ARM FEATURES AND BENEFITS



### PARALLEL ARM SERIES

#### AD-D1098-P, AD-D1098-PAC, AD-D1098-PACE

- Allows for freedom of movement
- Vertical adjustment eliminates cross-threading
- Fixtured tool increases repeatability
- Adjustable reach
- Available in air or oil cylinder models
- Electric tool mount standard on PACE model

### SINGLE ARM SERIES

#### AD-D1098-S, AD-D1098-SAC

- Full tool rotation
- Allows for freedom of movement
- Adjustable reach
- Compatible with automatic screw feeder
- Available in air or oil cylinder models

### AD Series Ergo Arms

| Model                      | Arm Style | Tool Mount     | Reach  |           | Capacity |       | Maximum Torque* |    |
|----------------------------|-----------|----------------|--------|-----------|----------|-------|-----------------|----|
|                            |           |                | IN     | MM        | LB       | KG    | IN-LB           | NM |
| <b>AIR CYLINDER SERIES</b> |           |                |        |           |          |       |                 |    |
| AD-D1098-SAC               | Single    | Air manifold   | 4 - 33 | 102 - 838 | 0 - 15   | 0 - 7 | 110             | 12 |
| AD-D1098-PAC               | Parallel  | Air manifold   | 4 - 33 | 102 - 838 | 0 - 15   | 0 - 7 | 110             | 12 |
| AD-D1098-PACE              | Parallel  | Electric       | 4 - 33 | 102 - 838 | 0 - 15   | 0 - 7 | 110             | 12 |
| <b>OIL CYLINDER SERIES</b> |           |                |        |           |          |       |                 |    |
| AD-D1098-S                 | Single    | Air manifold** | 4 - 33 | 102 - 838 | 0 - 15   | 0 - 7 | 110             | 12 |
| AD-D1098-P                 | Parallel  | Air manifold   | 4 - 33 | 102 - 838 | 0 - 15   | 0 - 7 | 110             | 12 |

\* Max torque allowed may be dependent on tool clutch type and joint rate

\*\* For single arm electric tool mount, order EAP-202ED-KIT

# Linear Arms

## ALA AND AFA SERIES LINEAR ARMS



### Ergonomic Support for Electric and Pneumatic Tools Reduces Operator Fatigue

AIMCO's linear arms are lightweight and designed for smooth and easy handling of electric and pneumatic tools. Arms are available in torque ranges of 5 Nm to 400 Nm and with reaches ranging from 12.5 in. to 36 in.

The ALA Series (AIMCO Linear Arm) is constructed with precision linear slides and bearings for precise tool movements. The AFA Series (AIMCO Folding Arm) is configured with aluminum alloy beams connected by an elbow joint for working with tools in tight spaces.

#### Tools recommended for use with this arm:

- AcraDyne 1000 and 2000 Series
- Uryu LT Series Pneumatic Screwdrivers
- Electra Electric Screwdrivers
- Inline Tools

## FEATURES AND BENEFITS

### ALA Series

- Constructed of lightweight aluminum
- Improves fastening quality and productivity
- Maintains Perpendicularity of the tool to the application
- Absorbs torque reaction
- Counterbalances tool mass

### AFA Series

- All features of the ALA Series
- Folding elbow joint allows for closer reach to post for tight workspaces

### ALA & AFA Series Linear Arms

| Model                              | Max. Torque |       | Max. Tool Weight |      | Reach    |             | Tool Diameter |           |
|------------------------------------|-------------|-------|------------------|------|----------|-------------|---------------|-----------|
|                                    | NM          | FT-LB | KG               | LB   | MM       | IN          | MM            | IN        |
| <b>ALA Series Linear Arm</b>       |             |       |                  |      |          |             |               |           |
| ALA5-200                           | 5           | 3.7   | 2                | 4.4  | 317- 519 | 12.5 - 20.4 | 23 - 40       | 1.0 - 1.6 |
| ALA15-200                          | 15          | 11.1  | 3                | 6.6  | 317- 519 | 12.5 - 20.4 | 23 - 40       | 1.0 - 1.6 |
| ALA10-400                          | 10          | 7.4   | 2                | 4.4  | 517- 919 | 20.4 - 36.2 | 23 - 40       | 1.0 - 1.6 |
| ALA40-300                          | 40          | 29.5  | 3                | 6.6  | 417- 719 | 16.4 - 28.3 | 32 - 47       | 1.3 - 1.9 |
| ALA200-400                         | 200         | 147.5 | 10               | 22.0 | 517- 919 | 20.4 - 36.2 |               |           |
| ALA400-400                         | 400         | 295   | 20               | 44.0 | 517- 919 | 20.4 - 36.2 |               |           |
| <b>AFA Series With Folding Arm</b> |             |       |                  |      |          |             |               |           |
| AFA5-400                           | 5           | 3.7   | 2                | 4.4  | 0 - 470  | 0 - 18.5    | 23 - 40       | 1.0 - 1.6 |
| AFA15-400                          | 15          | 11.1  | 3                | 6.6  | 0 - 470  | 0 - 18.5    | 23 - 40       | 1.0 - 1.6 |
| AFA10-550                          | 10          | 7.4   | 2                | 4.4  | 0 - 620  | 0 - 24.2    | 23 - 40       | 1.0 - 1.6 |

# Jib Arms

## ABMJ SERIES BENCH-MOUNT JIB ARMS



ABMJ Series

### Customize Bench-Mount Jib Arms to Meet all Application Requirements

AIMCO's Bench Mount Jibs Arms (ABMJ Series) include a jib, two sliding trolleys, and a base – just attach an AIMCO telescopic or anti-rotation torque arm or torque tube for a completely customized system.

#### Tools recommended for use with this arm:

- Tool Balancers (ASB/TW Series)
- ACA Series Telescoping Carbon Arms

### FEATURES AND BENEFITS

- Constructed of lightweight aluminum
- Two-Point secure for horizontal job for sound structure and safety
- Includes 2 sliding trolleys and base plate for easy mounting
- As many as 4 beams can be attached to a pillar
- Adjustable height adjustment for jib mount



Carbon Arm, Tool, and Balancer shown for concept.

Items sold separately

### ABMJ Series Jib Arms

| Model                             | Height |      | Beam Length |      | Max. Tool Weight |      | Pivot Range |
|-----------------------------------|--------|------|-------------|------|------------------|------|-------------|
|                                   | MM     | IN   | MM          | IN   | KG               | LB   |             |
| ABMJ Series - Bench-Mount Jib Arm |        |      |             |      |                  |      |             |
| ABMJ 1200-600                     | 1,200  | 47.2 | 600         | 23.6 | 6                | 13.2 | 180°        |
| ABMJ 1200-1000                    | 1,200  | 47.2 | 1,000       | 39.4 | 6                | 13.2 | 180°        |
| ABMJ 2000-1000                    | 1,200  | 47.2 | 1,000       | 39.4 | 4                | 8.8  | 180°        |

# Carbon Torque Arms

## ACA SERIES TELESCOPIC CARBON ARMS



**Telescopic Torque Reaction Arms Provide Complete Ergonomics in the Hand-Tightening Phase**

ACA Series Carbon Arms are lightweight, yet strong devices designed to absorb torque reactive forces. Highly flexible and modular, they adapt to a wide range of tools, and eliminate hazards to operators during fastening processes.

### Tools recommended for use with this arm:

- Continuous Drive Electric and Pneumatic Tools
- Pulse Tools
- Screwdrivers

## FEATURES AND BENEFITS

- Absorb torque reaction from continuous drive tools
- Counter balance tool weight when configured with AIMCO's wide array of tool balancers or with integrated balancer kits
- Orient tool correctly to the workpiece to improve efficiency and reduce operator effort in alignment to the fastener



ACA80-1500



ACA-V15-1000

### ACA Series Carbon Torque Arms

| Model       | Min. Length MM | Max. Length MM | Max Torque NM |
|-------------|----------------|----------------|---------------|
| ACA10-1000  | 495            | 1,105          | 10            |
| ACA10-1500  | 665            | 1,605          | 10            |
| ACA15-1000  | 486            | 1,066          | 15            |
| ACA15-1500  | 646            | 1,556          | 15            |
| ACA15-2000  | 806            | 2,046          | 15            |
| ACA40-1000  | 486            | 1,066          | 40            |
| ACA40-1500  | 646            | 1,556          | 40            |
| ACA40-2000  | 806            | 2,046          | 40            |
| ACA40-2500  | 986            | 2,576          | 40            |
| ACA80-1500  | 658            | 1,586          | 80            |
| ACA80-2000  | 828            | 2,078          | 80            |
| ACA80-2500  | 998            | 2,588          | 80            |
| ACA150-1500 | 668            | 1,578          | 150           |
| ACA150-2000 | 838            | 1,918          | 150           |
| ACA150-2500 | 1003           | 2,248          | 150           |
| ACA220-1500 | 668            | 1,578          | 220           |
| ACA220-2000 | 838            | 2,088          | 220           |
| ACA220-2500 | 1,003          | 2,588          | 220           |

### ACA-V Series Carbon Torque Arms

| Model         | Min. Length MM | Max. Length MM | Max Torque NM |
|---------------|----------------|----------------|---------------|
| ACA-V15-1000  | 777            | 1,345          | 15            |
| ACA-V15-1500  | 937            | 1,835          | 15            |
| ACA-V15-2000  | 1,097          | 2,325          | 15            |
| ACA-V40-1000  | 777            | 1,345          | 40            |
| ACA-V40-1500  | 937            | 1,835          | 40            |
| ACA-V40-2000  | 1,097          | 2,325          | 40            |
| ACA-V40-2500  | 1,277          | 2,855          | 40            |
| ACA-V80-1500  | 949            | 1,865          | 80            |
| ACA-V80-2000  | 1,119          | 2,357          | 80            |
| ACA-V80-2500  | 1,289          | 2,867          | 80            |
| ACA-V150-1500 | 960            | 1,957.5        | 150           |
| ACA-V150-2000 | 1,129          | 2,357          | 150           |
| ACA-V150-2500 | 1,294          | 2,862          | 150           |
| ACA-V220-1500 | 960            | 1,957.5        | 220           |
| ACA-V220-2000 | 1,129          | 2,357          | 220           |
| ACA-V220-2500 | 1,294          | 2,867          | 220           |



# Carbon Torque Arms

## ACA-P2 CARBON SMART ARM



### ACA-P2 Series Carbon Torque Smart Arm w/X,Y Axis Encoders

(Requires ACA-POSIX System or AcraDyne's Gen IV Smart Arm System)

| Model          | Min. Length MM | Max. Length MM | Max Torque NM |
|----------------|----------------|----------------|---------------|
| ACA-P215-1000  | 647            | 1,227          | 15            |
| ACA-P215-1500  | 803            | 1,713          | 15            |
| ACA-P215-2000  | 977            | 2,227          | 15            |
| ACA-P240-1000  | 647            | 1,227          | 40            |
| ACA-P240-1500  | 803            | 1,713          | 40            |
| ACA-P240-2000  | 977            | 2,227          | 40            |
| ACA-P240-2500  | 1,157          | 2,737          | 40            |
| ACA-P280-1500  | 830            | 1,757          | 80            |
| ACA-P280-2000  | 1,000          | 2,249          | 80            |
| ACA-P280-2500  | 1,169          | 2,760          | 80            |
| ACA-P2150-1500 | 839            | 1,749          | 150           |
| ACA-P2150-2000 | 1,009          | 2,087          | 150           |
| ACA-P2150-2500 | 1,174          | 2,419          | 150           |
| ACA-P2220-1500 | 839            | 1,749          | 220           |
| ACA-P2220-2000 | 1,009          | 2,259          | 220           |
| ACA-P2220-2500 | 1,174          | 2,760          | 220           |



### Balancer Kits for ACA-P2 Series Carbon Torque Smart Arms

| Model       | Min. Capacity KG | Max. Capacity KG |
|-------------|------------------|------------------|
| ACA-P2BK-4  | 2                | 4                |
| ACA-P2BK-6  | 4                | 6                |
| ACA-P2BK-8  | 6                | 8                |
| ACA-P2BK-10 | 8                | 10               |
| ACA-P2BK-14 | 10               | 14               |

## Encoder Options for ACA-P2 Smart Arm

### AcraDyne Gen IV Smart Arm System With Process Visualization

AcraDyne's Gen IV controller with smart arm capability and process visualization provides an advanced error-proofing solution to ensure the quality of your fastening operation. The capability is integrated into the Gen IV controller – no need for an external PC or software. See page 16 for more details.



#### FEATURES AND BENEFITS

- Easy to follow visual guidance directly on the Gen IV controller graphical screen
- Easy to program and set up
- Low cost solution vs. competitive offerings
- Modular – can be added at any time to an existing AcraDyne system using the Gen IV controller

### ACA-POSIX Positioning System

The compact, self-contained ACA-Posix process visualization system guides operators through their assigned tasks. It connects to ACA-P2 series arms with integrated balancer kits.



#### FEATURES AND BENEFITS

- Intuitive and simple programming on 7" color LCD touch-screen display
- Store up to 500 unique assembly sequences
- Communicates directly with Power Tool controllers over digital I/O
- Store and display product images or CAD drawings. Images/drawings are displayed with targeting sequences to direct operators easily through their task
- Output for synchronizing with line controls

# Carbon Torque Arms


## TOOL HOLDERS FOR TELESCOPING CARBON ARMS

### Tool Holders For AcraDyne Tools

| Model            | Description   |
|------------------|---|
| ACAH-40PS1000    | Tool holder for carbon fiber arm, AcraDyne 1000 series pistol/straight tools, 40 Nm       |
| ACAH-80PS3-5000  | Tool holder for carbon fiber arm, AcraDyne 3000/5000 series pistol/straight tools, 80 Nm  |
| ACAH-150PS3-5000 | Tool holder for carbon fiber arm, AcraDyne 3000/5000 series pistol/straight tools, 150 Nm |



### General Tool Holders

|   | Model               | Description                          | Min. Tool Grip<br>MM | Max. Tool Grip<br>MM |
|---|---------------------|--------------------------------------|----------------------|----------------------|
| For Telescopic Arms   |                     |                                      |                      |                      |
| Base Tool Holders   |                     |                                      |                      |                      |
|    | ACAH-15             | Base tool holder 4 screws            | 27                   | 45                   |
|   | ACAH-40-80          | Base tool holder 4 screws            | 30                   | 60                   |
|   | ACAH-150-220        | Base tool holder 4 screws            | 40                   | 70                   |
| Multi-Position Tool Holders   |                     |                                      |                      |                      |
|   | ACAH-15-MPE2745     | Multi-position tool holder interface | 27                   | 45                   |
|   | ACAH-150220-MPE4070 | Multi position tool holder           | 40                   | 70                   |
|   | ACAH-4080-MPE2745   | Multi-position tool holder           | 27                   | 45                   |
| Swivel Tool Holders   |                     |                                      |                      |                      |
|  | ACAH-S154080        | Swivel tool holder 20 to 35 mm       | 20                   | 35                   |
|   | ACAH-SL15150        | Swivel tool holder 40 to 55 mm       | 40                   | 55                   |



# Carbon Torque Tubes

## ACTT & ACPTT SERIES CARBON TORQUE TUBES



ACPTT Series  
Anti-Rotation Torque Tube  
with articulation support



ACTT Series  
Anti-Rotation Torque Tube

### Carbon Torque Tubes Are Universal Arms With an Exclusive Design For Maximum Tightening Flexibility

ACCT and ACPTT series carbon torque tubes provide smooth and accurate tool travel from bearing splined shaft construction. These sturdy arms are available in torque ranges of 15 – 80 Nm. They can be used with a variety of tool holders.

#### Tools recommended for use with this arm:

- Continuous Drive Electric and Pneumatic Tools
- Pulse Tools



ACTT-V40-850 300

#### ACTT Series Carbon Torque Tubes

| Model             | Min. Length Mm | Max. Length MM | Max Torque NM |
|-------------------|----------------|----------------|---------------|
| ACTT-V15-600 150  | 150            | 600            | 15            |
| ACTT-V15-800 300  | 300            | 800            | 15            |
| ACTT-V40-600 150  | 150            | 600            | 40            |
| ACTT-V40-850 300  | 300            | 850            | 40            |
| ACTT-V40-1500 600 | 600            | 1,500          | 40            |
| ACTT-V80-900 300  | 300            | 900            | 80            |
| ACTT-V80-1500 600 | 600            | 1,500          | 80            |
| ACTT-V80-2100 900 | 900            | 2,100          | 80            |

#### FEATURES AND BENEFITS

- Universal arm with an exclusive design for maximum tightening flexibility
- Provides articulated anti-rotation support when torque reaction is parallel to arm axis

# Carbon Torque Tubes

## ACPTT SERIES CARBON TORQUE TUBES FOR ACSA ARTICULATING SUPPORT ARMS

### ACPTT TORQUE TUBES



#### FEATURES AND BENEFITS

- ACPTT arm designed for use with the ACSA articulating support arm
- ACPTT carbon torque tube provides articulated anti-rotation support when torque reaction is parallel to arm axis
- The ACPTT/ACSA articulating support arm system allows torque reaction arm installation when the workplace can't accommodate suspended overhead structures

#### ACPTT Torque Tubes

| Model              | Min. Length<br>MM | Max. Length<br>MM | Max Torque<br>NM |
|--------------------|-------------------|-------------------|------------------|
| ACPTT-V15-510 150  | 150               | 600               | 15               |
| ACPTT-V15-710 300  | 300               | 800               | 15               |
| ACPTT-V40-510 150  | 150               | 600               | 40               |
| ACPTT-V40-760 300  | 300               | 850               | 40               |
| ACPTT-V40-1410 600 | 600               | 1,500             | 40               |
| ACPTT-V80-810 300  | 300               | 900               | 80               |
| ACPTT-V80-1410 600 | 600               | 1,500             | 80               |



### ACSA ARTICULATING SUPPORT ARM

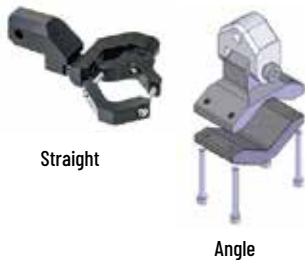
#### ACSA Articulating Support Arms

| Model          | Max Reach<br>MM | Max Height<br>MM | Max Torque<br>NM |
|----------------|-----------------|------------------|------------------|
| ACSA-600-1500  | 600             | 1,500            | 80               |
| ACSA-800-1500  | 800             | 1,500            | 80               |
| ACSA-1000-1500 | 1,000           | 1,500            | 80               |

\* Support arm, torque tube, balancer, tool holder, and tool shown for concept.

Items sold separately

### ACAHTT Tool Holders For ACTT & ACPTT Anti-Rotation Carbon Arms



| Model             | Description                         | Min. Tool Grip<br>MM | Max. Tool Grip<br>MM |
|-------------------|-------------------------------------|----------------------|----------------------|
| ACAHTT-15A-3060   | Angle Tool Holder, 15 Nm Arm        | 30                   | 60                   |
| ACAHTT-15S-2745   | Straight Tool Holder, 15 Nm Arm     | 27                   | 45                   |
| ACAHTT-4080A-3165 | Angle Tool Holder, 40/80 Nm Arms    | 31                   | 65                   |
| ACAHTT-40S-2745   | Straight Tool Holder, 40/80 Nm Arms | 27                   | 45                   |

# GCI Torque Reaction Arms

## GCI ARTICULATING TORQUE ARMS



### *Rugged Flexibility for Even the Most Complex Torque Applications*

Constructed of durable aluminum, steel, or carbon fiber, GCI Torque Arms are available with multiple tool mounting options for application specifics. These highly ergonomic and user friendly arms are available in torque ranges of 150 Nm to 7,500 Nm and with reaches ranging up to 20 ft.

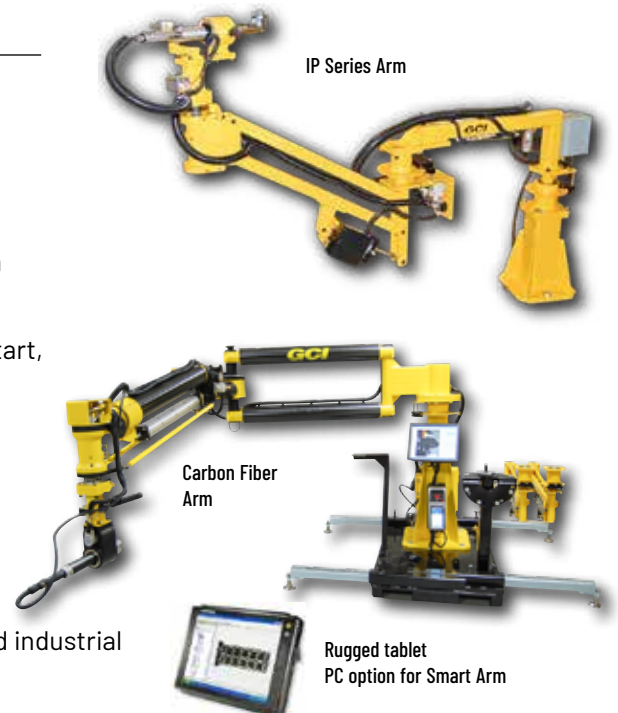
GCI arms can be designed as Smart Arms with two encoder options: PC-based AdaptiCS software (see page 15) and AcraDyne's Gen IV smart arm system with process visualization (see page 16). This complete Smart Arm system error-proofs even the most complex torque applications.

#### Tools recommended for use with this arm:

- AcraDyne 3000 - 9000 Series HT tools
- Angle (AEN 5000 series only)
- Straight (AES)
- Axial (AEJ)
- Pistol (AEP)
- Fixtured (AEF)

## FEATURES AND BENEFITS

- Available in aluminum, steel, or carbon fiber
- Configurable installation: floor mount, wall mount, overhead mount, bench mount, or portable base
- Braking options: manual/automatic, discrete braking with verification, parking brakes, and electric/pneumatic actuation
- Tool holding options: fixed position, gimbal mount
- Integrated tool start/brake actuation capability: tool trigger start, remote tool start
- Smart Arm Capabilities:
  - Available with as many as six encoders to monitor all desirable tool positions relative to application
  - Two encoder options:
    - AcraDyne Gen IV Smart Arm System with Process Visualization (see page 16)
    - AdaptiCS PC-based software that runs on an integrated industrial PC or on a customer supplied PC (see page 15)



# GCI Torque Reaction Arms

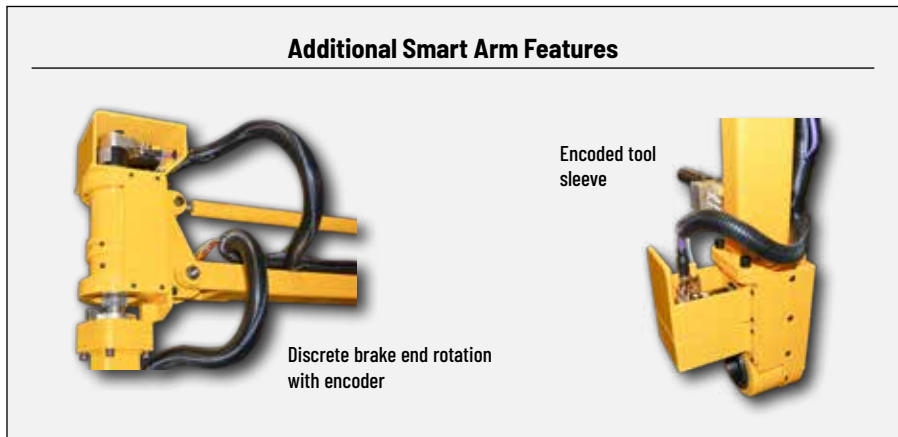
## GCI Torque Reaction Arms

| Model                                  | Max. Torque | Max. Tool Weight | Max. Reach | Max. Vertical Travel | Construction           |
|--|-------------|------------------|------------|----------------------|------------------------|
| <b>IPT Series - Torques to 375 Nm</b>  |             |                  |            |                      |                        |
| IPT150                                 | 150 Nm      | 12 lb            | 5 ft       | 30 in                | Aluminum               |
| IPT375                                 | 375 Nm      | 50 lb            | 6 ft       | 36 in                | Steel                  |
| <b>IP Series - Torques to 4,000 Nm</b> |             |                  |            |                      |                        |
| IP4                                    | 550 Nm      | 30 lb            | 8 ft       | 48 in                | Steel                  |
| IP5                                    | 1,000 Nm    | 50 lb            | 12 ft      | 60 in                | Steel                  |
| IP7                                    | 3,000 Nm    | 100 lb           | 12 ft      | 60 in                | Steel                  |
| IP8T                                   | 4,000 Nm    | 100 lb           | 12 ft      | 72 in                | Steel                  |
| <b>F Series - Carbon Fiber Arms</b>    |             |                  |            |                      |                        |
| F70                                    | 70 Nm       | 10 lb            | 3 ft       | 18 in                | Carbon Fiber Composite |
| F600                                   | 600 Nm      | 50 lb            | 20 ft      | 72 in                | Carbon Fiber Composite |
| F1500                                  | 1,500 Nm    | 50 lb            | 20 ft      | 72 in                | Carbon Fiber Composite |
| F3000                                  | 3,000 Nm    | 75 lb            | 20 ft      | 72 in                | Carbon Fiber Composite |
| F7500                                  | 7,500 Nm    | 75 lb            | 12 ft      | 72 in                | Carbon Fiber Composite |

## GCI ARM OPTIONS



### Additional Smart Arm Features



# GCI Torque Reaction Arms

## Encoder Options for GCI Smart Arms

### AcraDyne Gen IV Smart Arm System with Process Visualization

AcraDyne's Gen IV controller with smart arm capability and process visualization provides an advanced error-proofing solution to ensure the quality of your fastening operation. The capability is integrated into the Gen IV controller – no need for an external PC or software. See page 16 for more details.

#### FEATURES AND BENEFITS

- Easy to follow visual guidance directly on the Gen IV controller graphical screen
- Easy to program and set up
- Low cost solution vs. competitive offerings
- Modular – can be added at any time to an existing AcraDyne system using the Gen IV controller



### AdaptiCS Software

Intuitive, user-friendly AdaptiCS PC-based software that runs on an integrated industrial PC or on a customer supplied PC. Smart arms guide the operator in programmable torque patterns and count fasteners required for correct assembly.

#### FEATURES AND BENEFITS

- Batch count capabilities
- Bidirectional arm articulation tracking
- Full torque/angle results display
- Integrates into any line control (PLC, MES, etc.)
- Multiple part locate strategies (1-point, 2-point, 3-point)
- Multiple rework strategies to fit requirements
- Fully programmable dynamic display with integrated PC option
- Integrates devices such as torque controllers via open protocol, encoded GCI torque reaction arms, scanners, vision cameras, and digital IO (pass/fail)
- AdaptiCS Enterprise (optional) provides full line control, interlocks, and data collection
- Runs on Windows 7, 8, and 10



# Gen IV Smart Arm System With Process Visualization

## Gen IV Controller with On-Board Smart Arm Capability and Process Visualization

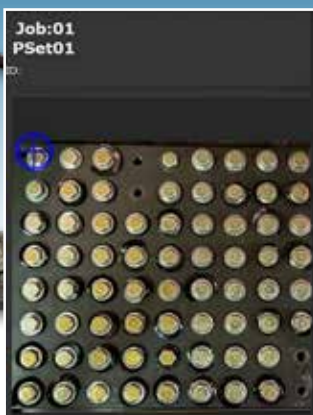
AcraDyne Gen IV Controller's smart arm capability provides an advanced error-proofing solution to ensure the quality of your fastening operation. The process requires no external PC or software – the capability is on-board every Gen IV controller.

### FEATURES AND BENEFITS

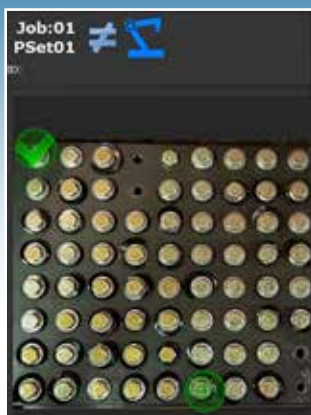
- Easy-to-follow visual guidance on the Gen IV controller graphical screen
- Easy setup – programming takes only minutes
- Once fastener locations are programmed into the Gen IV controller, the system can perform specific actions on specific fasteners
- No external PC or third-party software needed. Control the process using AcraDyne's Gen IV Controller and its integrated software, which is provided free of charge
- Low-cost solution vs. competitive offerings that require third-party PC-based control
- Modular – can be added at any time to an existing AcraDyne system using the Gen IV controller
- No guesswork! Powerful Gen IV data collection enables diagnostics and analysis
- Works with both continuous and discontinuous drive tools



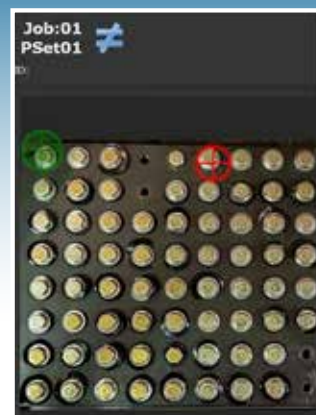
The Gen IV controller provides easy-to-follow visual guidance directly on the graphical screen.



Tool in position over Bolt 1



Bolt 1 OK  
Direction to Bolt 2



Tool in wrong location



# Gen IV Smart Arm System With Process Visualization

## Smart Arm Accessory:

- Requires no external PC or third-party software for operation
- Gen IV Controller Software integrates with plant manufacturing execution software or allows custom programming

Smart Arm guides operator in the specified torque pattern and counts fasteners required for correct assembly.

Encoders located at each joint of the arm.

## Gen IV Controller captures fastening-process data:

- Data captured and reported in real time with torque and graphing capabilities
- Curve results presented in real time or from stored results
- 20,000 curve results can be stored in memory
- Monitor, control, and report torque, angle, engineering units, fastener count, job/job sequence
- Multiple fastening strategies: 256 parameter sets with 20 stages
- Jobs capabilities - 99



Smart Arm Accessory

Gen IV Controller with Large 7" Touch Screen

Custom image of run screen with preprogrammed fastener locations/specifications. Updates in real time.

Tool operates only when it is at the correct specified fastener location.

# 3arm Zero Gravity Arms

## 3arm ZERO GRAVITY ARMS



**STRONG AND DEPENDABLE, 3ARM ERGONOMIC ARMS PROVIDE FULL RANGE OF MOTION TO COMPLETE ANY TASK EFFICIENTLY AND SAFELY**

Designed to keep tools and devices weightless even in difficult positions and working areas, 3arms are available with more than 29 head configurations. Add in various available accessories, and the arms can be fixed in almost any position. More than 1,000 standard combinations are available, as well as customized solutions.



### Tools recommended for use with this arm:

- Tools that have sufficient mass for counter balancing and where overhead suspension is not an option

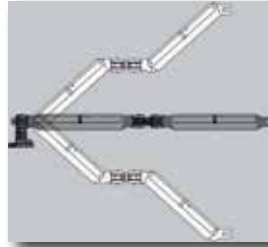
## FEATURES AND BENEFITS

- Eases use of larger, higher weight tools, eliminating the hazards of operators having to physically carry the loads.
- Durable closed-case design absorbs considerable force
- Eliminates tool weight, providing not only an ergonomic benefit, but also increasing productivity
- Reduces operator fatigue and the chance of injury due to strain
- Holds any tool up to 77 lbs, keeping the tool weightless, while eliminating possible damage caused by dropping the tool
- Can be base-mounted, ceiling-mounted, or wall-mounted. Easily add precision reach by applying a rail, make it mobile with a trolley, or adding vertical reach with a mounting column
- Available with tool trigger braking. Effortlessly position the tool, stop it in place, release trigger, and float it to the next job



# 3arm Zero Gravity Arms

## 3arm Series 1



Light and nimble, capable of reaching even the most difficult applications.

|  |                            |
|--|----------------------------|
| <b>Reach</b><br>Vertical: 44 in<br>Horizontal: 42 in | <b>Max Weight</b><br>22 lb |
|--|----------------------------|

| Model  | Orientation     | Reach (IN) |        | Max Weight<br>LB |
|--------|-----------------|------------|--------|------------------|
|        |                 | Vert.      | Horiz. |                  |
| 1SNIDS | Floor Mounted   | 42         | 44     | 22               |
| 1AMIDS | Ceiling Mounted | 42         | 44     | 22               |

Compatible Head Members (22): B, BA, C, E, EA, F, G, K, N, T

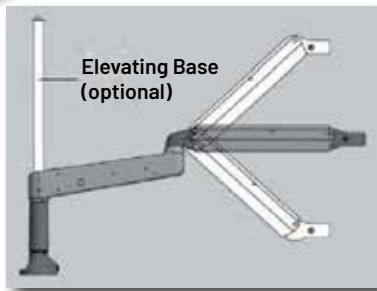
### Brake Options

|     |              |
|-----|--------------|
| L00 | Not Required |
|-----|--------------|

To build your 3arm, choose the following

| Arm Model | Head Member | Brake Option |
|-----------|-------------|--------------|
|           |             |              |

## 3arm Series 2



Combination radial arm and tilting arm, each capable of 360° rotation. Two arms of different lengths give you the ability to reach separate working areas.

|  |                            |   |
|--|----------------------------|---|
| <b>Reach</b><br>Vertical: 22 in<br>Horizontal: 34 in | <b>Max Weight</b><br>13 lb | <b>Max Torque</b><br>120 Nm<br>88 ft-lb |
|--|----------------------------|---|

| Model | Orientation     | Reach (IN) |        | Max Weight<br>LB |
|-------|-----------------|------------|--------|------------------|
|       |                 | Vert.      | Horiz. |                  |
| BB    | Floor Mounted   | 22.2       | 33.9   | 13               |
| BE    | Ceiling Mounted | 22.2       | 33.9   | 13               |
| BA    | Ceiling Mounted | 22.2       | 33.9   | 13               |

Compatible Head Members (22): B, BA, C, E, EA, F, G, K, N

### Brake Options

|     |              |
|-----|--------------|
| L00 | Not Required |
|-----|--------------|

To build your 3arm, choose the following

| Arm Model | Head Member | Brake Option |
|-----------|-------------|--------------|
|           |             |              |



# 3arm Zero Gravity Arms

## 3arm Series 3



**Reach**  
Vertical: 42 in  
Horizontal: 68 in

**Max Weight**  
77 lb

**Max Torque**  
650 Nm  
479 ft-lb

Versatile arm with a long reach and the ability to carry a heavy load. Features “turning and tilting” brake locking systems (pneumatic or manual), allowing the operator to immobilize the arm in a fixed position on all axes simultaneously or separately.

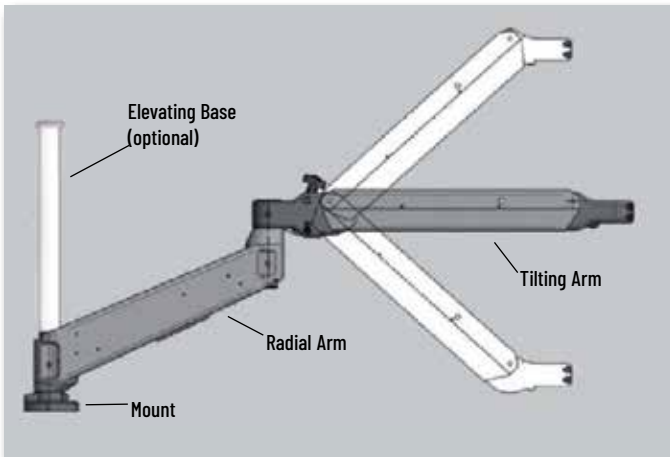
| Model                  | Orientation              | Reach (IN) |        | Max Weight<br>LB |
|------------------------|--------------------------|------------|--------|------------------|
|                        |                          | Vert.      | Horiz. |                  |
| <b>Floor Mounted</b>   |                          |            |        |                  |
| PSBS                   | Short Rad. + Short Tilt. | 27.8       | 41.7   | 77               |
| PSBM                   | Short Rad. + Long Tilt.  | 44.5       | 53.5   | 40               |
| PLBS                   | Long Rad. + Short Tilt.  | 27.8       | 55.9   | 77               |
| PLBM                   | Long Rad. + Long Tilt.   | 44.5       | 67.6   | 40               |
| <b>Ceiling Mounted</b> |                          |            |        |                  |
| PEBS                   | Short Rad. + Short Tilt. | 27.8       | 41.7   | 77               |
| PEBM                   | Short Rad. + Long Tilt.  | 44.5       | 53.5   | 40               |
| ASBS                   | Long Rad. + Short Tilt.  | 27.8       | 55.9   | 77               |
| ASBM                   | Long Rad. + Long Tilt.   | 44.5       | 67.6   | 40               |
| <b>Elevating Base</b>  |                          |            |        |                  |
| ALBS                   | Elevating+ Short Tilt.   | 27.8       | 43.7   | 77               |
| ALBM                   | Elevating+ Long Tilt.    | 44.5       | 55.8   | 40               |

Compatible Head Members (22): All

| Brake Options |                        |
|---------------|------------------------|
| L00           | Not Required           |
| L11           | Manual                 |
| L22           | Pneumatic              |
| L50           | Manual Locking Base    |
| L92           | Tool Trigger Activated |

To build your 3arm, choose the following

| Arm Model | Head Member | Brake Option |
|-----------|-------------|--------------|
|           |             |              |



# 3arm Zero Gravity Arms

## 3arm Series 4



**Reach**  
Vertical: 54 in  
Horizontal: 58 in

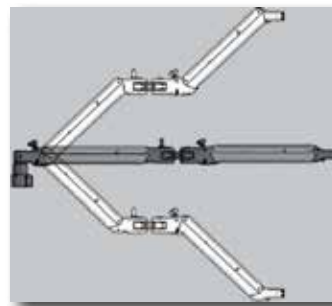
**Max Weight**  
53 lb

**Max Torque**  
300 Nm  
221 ft-lb

| Model | Orientation                | Reach (IN) |        | Max Weight<br>LB |
|-------|----------------------------|------------|--------|------------------|
|       |                            | Vert.      | Horiz. |                  |
| DS    | Floor Mounted, Short Arm   | 42.3       | 48     | 53               |
| DM    | Floor Mounted, Long Arm    | 55.5       | 57.5   | 43               |
| ADS   | Ceiling Mounted, Short Arm | 42.3       | 48     | 53               |
| ADM   | Ceiling Mounted, Long Arm  | 55.5       | 57.5   | 43               |

Compatible Head Members (22): All

Dual-tilting arms expand range of movement. The innovative connections between the parts of the arm allow completely free movement of rolling up, down, and sideways. Capable of reaching the most difficult positions or work with weightless precision.



### Brake Options

|     |                        |
|-----|------------------------|
| L00 | Not Required           |
| L11 | Manual                 |
| L22 | Pneumatic              |
| L50 | Manual Locking Base    |
| L92 | Tool Trigger Activated |

To build your 3arm, choose the following

| Arm Model | Head Member | Brake Option |
|-----------|-------------|--------------|
|           |             |              |

## 3arm Series 6



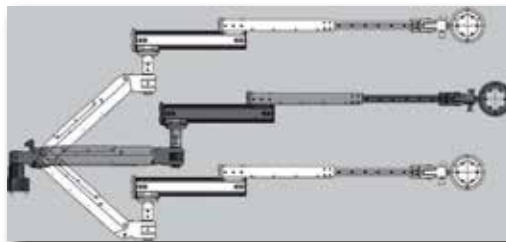
**Reach**  
Vertical: 26 in  
Horizontal: 82 in

**Max Weight**  
42 lb

| Model  | Description | Reach (IN) |        | Max Weight<br>LB |
|--------|-------------|------------|--------|------------------|
|        |             | Vert.      | Horiz. |                  |
| BPRASC | Model 800   | 26         | 68     | 42               |
| BPRASM | Model 1200  | 26         | 82     | 26               |

Compatible Head Members (22):  
BPRASC - All  
BPRASM - N,T

Extendable arm with ball linear guideways attached to a pendulum base arm, both capable of 360° rotation. This compact arm offers versatility for any type of tool. The telescopic top arm allows the user to work on hard-to-reach areas comfortably, quickly and safely. Works in a wide variety of applications.



### Brake Options

|     |              |
|-----|--------------|
| L00 | Not Required |
|-----|--------------|

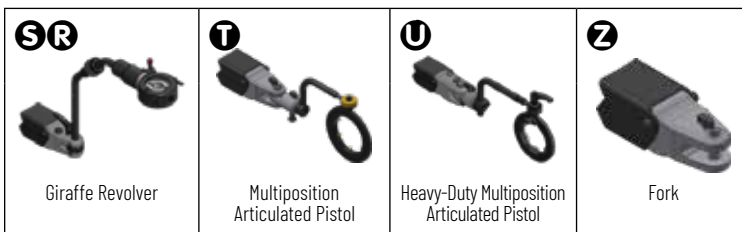
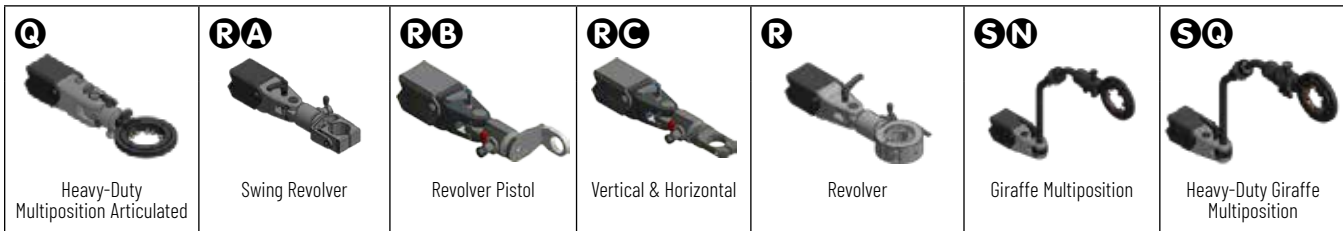
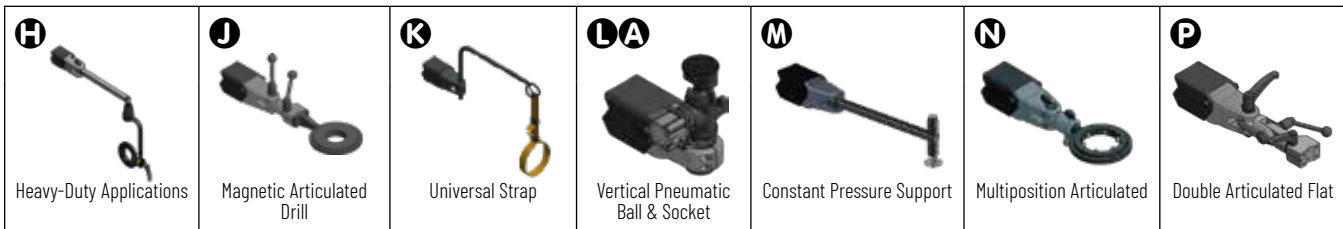
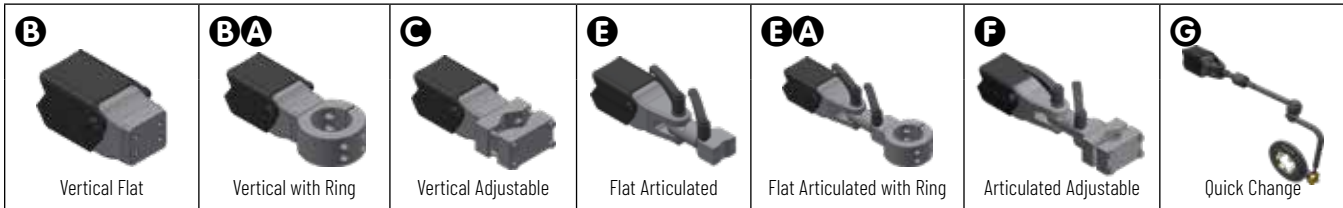
To build your 3arm, choose the following

| Arm Model | Head Member | Brake Option |
|-----------|-------------|--------------|
|           |             |              |

# 3arm Zero Gravity Arms

## 3arm Head Members

Once you've determined the tools that will be used in you application, select a head member based on the type of application and necessary orientations.



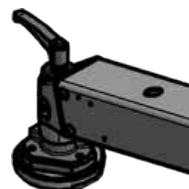
## 3arm Brake Options



**L11**  
Manual Brakes  
Manually turned handle



**L22**  
Pneumatic Brakes



**L50**  
Manual Locking Base  
Handle at base only



**L92**  
Tool Trigger Activated Brake  
Pneumatic, activated through the tool

# Support System Tool-Mounting Options

## TOOL MOUNTING OPTIONS

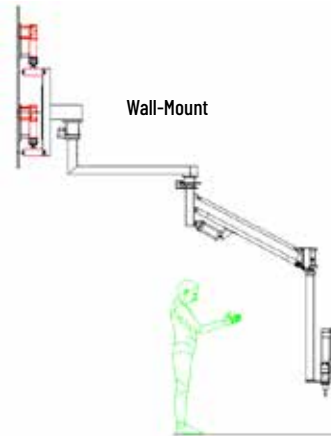


AIMCO provides many head and mounting options to fit almost any application. Find more information in our Application Manual for Arms and Fixtures located on our website.

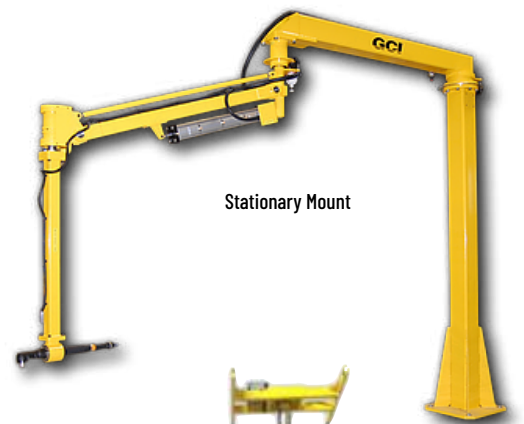
Contact an AIMCO Customer Service Associate for more details, 1-503-254-6600, or toll free 1-800-852-1368.



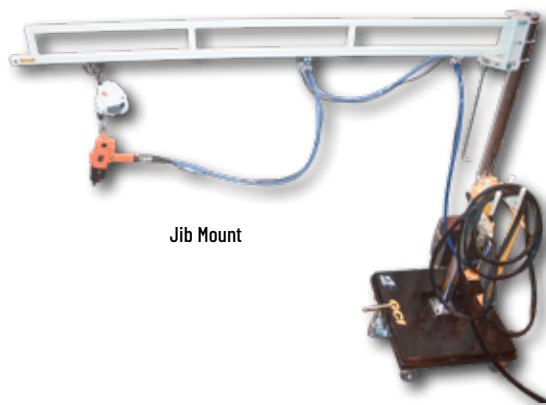
Overhead Trolley Mount



Wall-Mount



Stationary Mount



Jib Mount



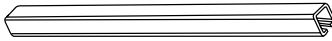
Overhead Fixed Mount

# Workstation Components And Assemblies

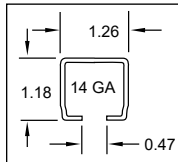
## COMPONENTS

### TRACK

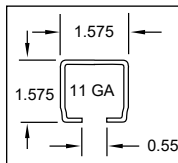
Steel with beige polyester finish. Use for vertical and horizontal workstation support.



| PART NUMBER | 30# TRACK  |
|-------------|------------|
| AT3-3       | 3 ft track |
| AT3-4       | 4 ft track |
| AT3-6       | 6 ft track |
| AT3-9*      | 9 ft track |



| PART NUMBER | 50# TRACK   |
|-------------|-------------|
| AT5-3       | 3 ft track  |
| AT5-4       | 4 ft track  |
| AT5-6       | 6 ft track  |
| AT5-9*      | 9 ft track  |
| AT5-12*     | 12 ft track |



### TRACK NUT (ATN-3/5)

Zinc plated steel. Use to attach accessories to track, as end stops, or to isolate rolling accessories.

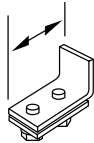
- ATN-3 for 30 lb. track
- ATN-5 for 50 lb. track



### END STOP (AES-3/5)

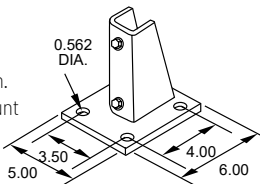
Zinc oxide finish. Use to prevent balancer trolley from "overtouring" horizontal track.

- AES-3 for 30 lb. track
- AES-5 for 50 lb. track



### MOUNTING PLATE (AMP-5)

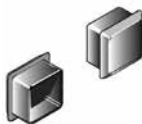
Black polyester finish. Use as a base to mount vertical uprights.



### END CAP (AEP-3/5)

Black molded vinyl. Use to cap track ends for a professional finish.

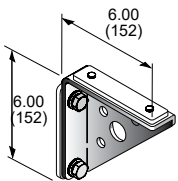
- AEP-3 for 30 lb. track
- AEP-5 for 50 lb. track



### ANGLE BRACKET (AB-3/5)

Black polyester finish. Use to mount horizontal track to vertical track.

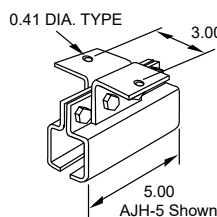
- AB-3 for 30 lb. track
- AB-5 for 50 lb. track



### JOINT HANGER BRACKET (AJH-3/5)

Black polyester finish. Use to couple and hang end-to-end track.

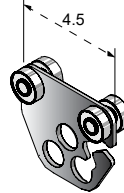
- AJH-3 for 30 lb. track
- AJH-5 for 50 lb. track



### BALANCER TROLLEY (ABT-3/5)

Black polyester finish. Use as moving support for tool balancers, hose, and cable. Quality ball bearing wheels for long life and smooth tracking.

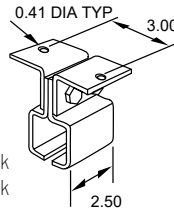
- ABT-3 for 30 lb track (1.00 dia)
- ABT-5 for 50 lb track (1.25 dia)



### HANGER BRACKET (AHB-3/5)

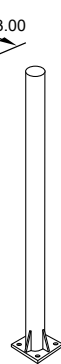
Black polyester finish. Use to suspend track at right angle.

- AHB-3 for 30 lb. track
- AHB-5 for 50 lb. track



### VERTICAL COLUMN (AVC-5\*)

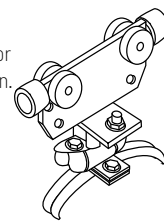
Beige polyester finish, 3" diameter x 9 ft upright steel column with welded base. Use as floor mount for extra stability with jibs or workstation components.



### HOSE/CABLE TROLLEY

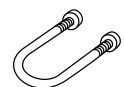
Black polyester finish. Use for moving cable or hose festoon. Supports hose cable OD .60-.94.

- AIC3-2 for 30 lb. track
- AIC5-2 for 50 lb. track



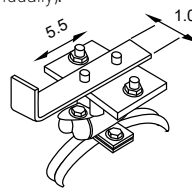
### U-BOLTS (AUB-5)

Zinc plated steel. Use to secure boom bracket, or any flat metal plate, to AVC-5 (sold individually).



### END CLAMP (AEC5-2)

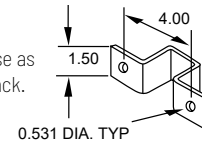
Black polyester finish. Use as end stop with hose carrier for festoon. Cable/hose OD .60-.94.



### SUPPORT CLAMPS (ASC-3/5)

Black polyester finish. Use as additional support for track.

- ASC-3 for 30 lb. track
- ASC-5 for 50 lb. track



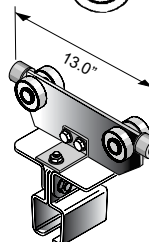
### TOOL CLIP (SH-5)

Steel clip with safety latch. Use for tool attachment and as replacement clip for lightweight tool balancers. Measures 2.37" long.



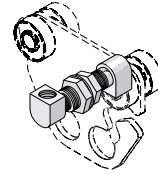
### ROLLING HANGER (ABT5-R)

Black polyester finish. Use as support for rolling track. Allows X/Y axis movement, includes ball bearing wheels.



### 90° CONNECTOR FOR 3/8" HOSE (WSCH)

3/8" I.D. Brass. Use to provide stable transfer point from air line to tool. 90 degree connector attaches to ABT-5.



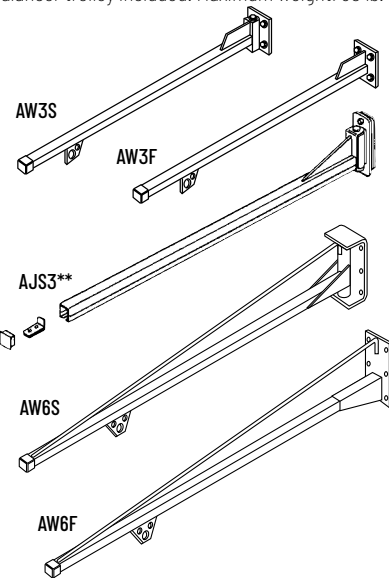
## WALL- AND FLOOR- MOUNTED JIBS

### 3 FT. SWINGING JIB (AW3S)

### 3 FT FIXED JIB (AW3F)

### 3 FT. SWINGING JIB FOR CHANNEL MOUNT (AJS3\*\*)

Jibs are mounted to wall or beams to create free standing workstations. End stop, end cap, and balancer trolley included. Maximum weight: 30 lb.



### 6 FT. SWINGING JIB (AW6S)

### 6 FT FIXED JIB (AW6F)

Jibs can be wall mounted or attached to vertical column (AVC-5) to create a freestanding workstation. End stop, end caps, and balancer trolley are included. Maximum weight: 50 lb.

All complete assemblies are beige polyester finish and include balancer trolley, end caps, and end stops. Floor mounted assemblies are not able to ship via UPS.

### When choosing a workstation system, remember...

Total weight capacities should include tool balancer, hose/cable, and tool/fixture. Units need to be supported vertically and horizontally every 6 ft.

\*\* Additional freight may apply

\*\* AJS3 Does not include balancer trolley



# Workstation Components And Assemblies

## FLOOR MOUNTED 3 FT. SWINGING JIB\* (AW3FMS)

## FLOOR MOUNTED 3 FT. FIXED JIB\* (AW3FMF)

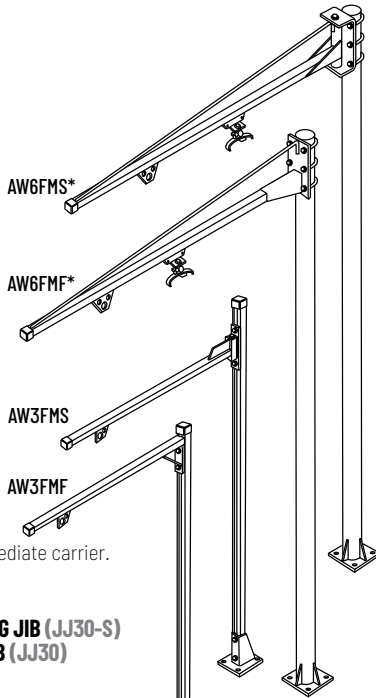
Maximum weight: 30 lb  
Column height: 6 ft

## FLOOR MOUNTED 6 FT. SWINGING JIB\* (AW6FMS\*)

## FLOOR MOUNTED 6 FT. FIXED JIB\* (AW6FMF\*)

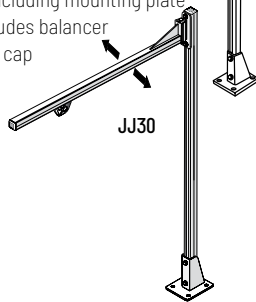
Maximum weight: 50 lb  
Column height: 9 ft

\*Units include end stop,  
balancer trolley and intermediate carrier.



## BENCH MOUNTED SWINGING JIB (JJ30-S) BENCH MOUNTED FIXED JIB (JJ30)

Maximum weight: 30 lb  
Column height: 48" including mounting plate  
3 ft. swinging jib includes balancer  
trolley, end stop, and cap

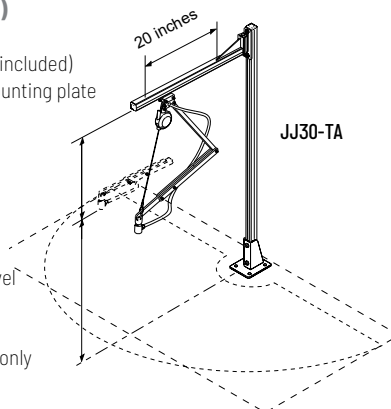


### AIMCO WORKSTATION KIT

## BENCH MOUNTED WORKSTATION WITH TORQUE ARM (JJ30-TA\*\*)

- 5 lb. maximum weight (RPA-3 included)
- 5' column height including mounting plate
- 38" jib length (swinging)
- 15 ft-lb torque rating
- 3/8" NPT inlet
- 1/4" NPT outlet
- Beige polyester finish
- 1/4" braided air hose
- 21" maximum vertical arm travel

\*\*Additional freight may apply  
\*\*For use with pneumatic tools only



## CREATE A CUSTOM SUPPORT SYSTEM USING AIMCO'S QUALITY PRODUCTS

- Organize work area to create a safe, productive working environment
- Reduce risk of injury to assembler by providing support for heavy tools
- Protect valuable tools, fixtures, and monitoring devices from damage by suspending them out of the way

### AIMCO BASIC WORKSTATION KIT (ATW-50)



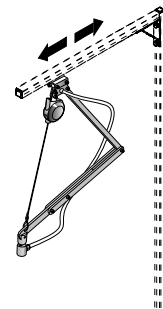
- 50 lb maximum weight capacity
- 48" uprights
- 36" extensions
- Table mounts included
- 6' tool rail with rolling trolley included
- All necessary hardware included

## TROLLEY MOUNTED TORQUE ARM WITH 3-LB RETRACTOR AND HOSE (FA-50-2\*)

Ergonomic arm absorbs torque reaction.  
Moves front to back along overhead jib.

### (TA-50-2)

Moves side to side on overhead track.



## TOOL BASKET (21226)

Mounts easily to any work area to  
hold pistol and angle style tools.

AIMCO can customize a workstation for you.

Contact an AIMCO Customer Service Associate 1-503-254-6600, or toll free 1-800-852-1368.

# Gravity-Defying Balancers

## TW SERIES BALANCERS



### TW-0 and TW-00

- Gravity defying / "true balance"
- No tension buildup to cause worker fatigue
- Easy external direct drive tensioning
- 360° upper swivel
- Safety cable provision
- Tool clip included



### TW-3 through TW-70

- Tapered drum allows "true balance" throughout cable travel
- Easy external direct drive tensioning
- Cast aluminum casing for durability
- Permanent lubrication
- 360° top swivel
- Enclosed spiral spring for added safety
- Safety chain provision (TW-3 through TW-15 models)
- Automatic safety lock plus manual drum lock (TW-22 through TW-70)

### TW Series Balancers

| Model | Capacity      |            | Anti-Gravity Capacity (LB) | Cable                                  |
|-------|---------------|------------|----------------------------|--|
|       | LB            | KG         |                            |  |
| TW-00 | 1.1 - 3.3     | 0.5 - 1.5  | 2.5 - 3.0                  | 18" stranded steel cable 1/8" dia.     |
| TW-0  | 1.1 - 3.3     | 0.5 - 1.5  | 2.5 - 3.0                  | 3.3-ft stranded steel cable 1/8" dia.  |
| TW-3  | 2.2 - 6.6     | 1.0 - 3.0  | 4.5 - 6.0                  | 4.3-ft stranded steel cable 5/32" dia. |
| TW-5  | 5.5 - 11.0    | 2.5 - 5.0  | 8.0 - 10.5                 | 4.3-ft stranded steel cable 5/32" dia. |
| TW-9  | 9.9 - 19.8    | 4.5 - 9.0  | 15.0 - 19.0                | 4.3-ft stranded steel cable 5/32" dia. |
| TW-15 | 19.8 - 33.0   | 9.0 - 15.0 | 26.0 - 32.5                | 4.3-ft stranded steel cable 5/32" dia. |
| TW-22 | 33.0 - 48.4   | 15 - 22    | 41.0 - 48.0                | 5-ft stranded steel cable 3/16" dia.   |
| TW-30 | 48.4 - 66.0   | 22 - 30    | 58.0 - 65.5                | 5-ft stranded steel cable 3/16" dia.   |
| TW-40 | 66.0 - 88.0   | 30 - 40    | 77.5 - 87.5                | 5-ft stranded steel cable 3/16" dia.   |
| TW-50 | 88.0 - 110.0  | 40 - 50    | 100.0 - 109.5              | 5-ft stranded steel cable 3/16" dia.   |
| TW-60 | 110.0 - 132.0 | 50 - 60    | 122.0 - 131.0              | 5-ft stranded steel cable 3/16" dia.   |
| TW-70 | 132.0 - 154.0 | 60 - 70    | 144.0 - 153.0              | 5-ft stranded steel cable 3/16" dia.   |

## ASB SERIES BALANCERS

- Built-in Safety Features: The cable, drum, and enclosed spring are fully visible without opening the unit for easy and convenient safety checks. The sturdy spiral spring is enclosed for greater control and safety
- Ergonomic Spring Release: The automatic safety lock provides extra control
- Extended Cable Length: Stainless steel cables allow for extended reach on applications
- Enhanced Gear Mechanism: Allows for more exact adjustment of tension
- No Recoil and Low Resistance: Tapered drum style provides gravity defying tool positioning and low travel



ASB-0C Gravity Defying and Hand Adjustable Balancer



ASB-3C  
ASB-5C

### ASB Series Balancers

| Model  | Capacity     |              | Stroke  |        | Weight |        |
|--------|--------------|--------------|---------|--------|--------|--------|
|        | lb           | kg           | in      | cm     | lb     | kg     |
| ASB-0C | 1.1 - 3.3 lb | 0.5 - 1.5 kg | 51.1 in | 130 cm | 1.5 lb | 0.7 kg |
| ASB-3C | 3.3 - 6.6 lb | 1.5 - 3 kg   | 86.4 in | 220 cm | 3.0 lb | 1.4 kg |
| ASB-5C | 5.5 - 11 lb  | 2.5 - 5 kg   | 86.4 in | 220 cm | 3.4 lb | 1.5 kg |

# Line Reel Balancers / Retractors

## LINE REEL BALANCERS

### LR Series

- Designed for light duty applications with small pneumatic tools
- Integrating air hose and support cable keep work areas clean
- Adjustable ball stop for optional positioning
- 1/4" I.D. polyvinyl hose with 1/4" NPT inlet
- 360° upper swivel
- Maximum 142 PSI



LR Series Line Reel Balancers

| Model      | Hose Length |        | Capacity |        |
|------------|-------------|--------|----------|--------|
| LR-09B-90  | 35.5 in     | 90 cm  | 3 lb     | 1.5 kg |
| LR-09B-200 | 78.3 in     | 199 cm | 3 lb     | 1.5 kg |

## RETRACTORS

### RPA Series

- No tools needed to set tension
- 5 ft nylon coated steel cable
- Reinforced hanging bracket includes safety cable provision
- Adjustable cable stop
- Three (3) models support weight 0.5 – 5 lb
- Tool clip included

### RMA-L Series

- Steel housing with polyester finish
- Reinforced hanging bracket includes safety cable provision
- 8 ft of 3/32" diameter coated steel cable
- Permanently lubricated
- Tool clip included
- External tension adjustment
- Ratchet cable lock



### RPA / RMA-L Series Retractors

| Model   | Capacity     |                |
|---------|--------------|----------------|
| RPA-1   | 0.5 - 1.5 lb | 0.2 - 0.7 kg   |
| RPA-2   | 1.5 - 3.0 lb | 0.7 - 1.4 kg   |
| RPA-3   | 3.0 - 5.0 lb | 1.4 - 2.3 kg   |
| RMA-7L  | 5 - 10 lb*   | 2.3 - 4.8 kg*  |
| RMA-15L | 10 - 15 lb*  | 4.5 - 6.8 kg*  |
| RMA-20L | 15 - 23 lb*  | 6.8 - 10.4 kg* |

\* With ratchet lock

# Air Preparation Units

## AFRL STACKING FILTER/REGULATORS

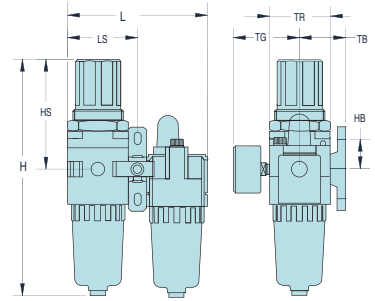
Stacking filter/regulator combinations provide air filtration and precise regulation in a single unit for easy mounting and installation.

### FEATURES AND BENEFITS

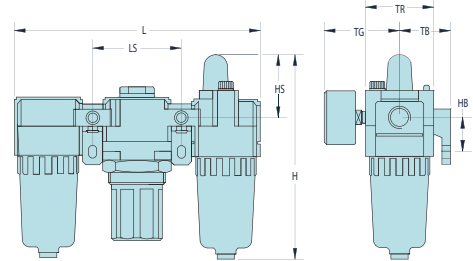
- All models include L-mount bracket, gauge, and metal bowl shields
- Polycarbonate filter and lubricator bowls (metal bowls standard on AFRL-8)
- 25-micron filter included on all models
- Regulating range: 7 - 125 PSI
- Custom order upgrade items include metal bowl, 5 micron filter, semi-automatic filter drain, and reduced PSI range regulator. Contact an AIMCO Customer Service Associate for more information, 1-503-254-6600, or toll free 1-800-852-1368



AFRL-2-C  
AFRL-3-C



AFRL-3  
AFRL-4  
AFRL-8



28178  
HT Air Tool/AFRL  
Carrying Kit



AFRL-4HTA  
Standalone Unit

### AFRL Stacking Filter/Regulators

| Model    | Port | Gauge Port | Flow Rate CFM | Flow Rate L/MIN | Bowl Shield | H IN/MM       | HB IN/MM    | HS IN/MM     | L IN/MM       | LS IN/MM     | TB IN/MM    | TG IN/MM    | TR IN/MM    |
|----------|------|------------|---------------|-----------------|-------------|---------------|-------------|--------------|---------------|--------------|-------------|-------------|-------------|
| AFRL-2   | 1/4" | 1/8"       | 70            | 2,000           | yes         | 6.16 (156.5)  | 1.39 (35.3) | 1.50 (38.1)  | 7.13 (181.1)  | 2.52 (64.0)  | 1.61 (41.0) | 2.39 (60.7) | 2.09 (53.1) |
| AFRL-2-C | 1/4" | 1/8"       | 60            | 1,700           | yes         | 8.31 (211.1)  | 1.38 (35.1) | 3.64 (92.5)  | 4.61 (117.1)  | 2.30 (58.4)  | 1.61 (40.9) | 2.39 (60.7) | 2.09 (53.1) |
| AFRL-3   | 3/8" | 1/4"       | 140           | 4,000           | yes         | 7.54 (191.5)  | 1.57 (40.0) | 1.61 (40.9)  | 9.37 (238.0)  | 3.31 (84.1)  | 1.97 (50.0) | 2.58 (65.5) | 2.76 (70.1) |
| AFRL-3-C | 3/8" | 1/4"       | 105           | 3,000           | yes         | 10.31 (261.9) | 1.57 (39.9) | 4.41 (112.0) | 6.06 (153.9)  | 3.03 (77.0)  | 1.97 (50.0) | 2.58 (65.5) | 2.76 (70.1) |
| AFRL-4   | 1/2" | 1/4"       | 140           | 4,000           | yes         | 7.54 (191.5)  | 1.57 (40.0) | 1.61 (40.9)  | 9.37 (238.0)  | 3.31 (84.1)  | 1.97 (50.0) | 2.58 (65.5) | 2.76 (70.1) |
| AFRL-8   | 1"   | 1/4"       | 180           | 5,000           | yes         | 10.69 (271.5) | 1.97 (50.0) | 1.89 (48.0)  | 11.81 (300.0) | 4.13 (104.9) | 2.75 (69.9) | 2.97 (75.4) | 3.54 (89.9) |

#### Air Preparation Units: Basic Functions

The supply of clean, dry air is essential to the operation of pneumatic powered tools. Use only clean filtered air for longer tool life. Provide proper airflow (CFM) and regulate air pressure (PSI) for optimum performance.

**To determine unit size for application, you need to know:**

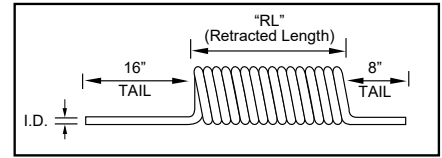
- Total air flow (CFM) required for application
- Size of incoming air line and size of air line required by tool
- Air supply pressure (PSI)
- Allowable pressure drop
- Does the application require lubrication?
- Does the overall system have the required capacity?

# Air Line

## Polyurethane Hose



- Durable Polyurethane is chemical resistant and lightweight, and provides excellent recoil memory and maximum flexibility
- Available in transparent hose color (opaque also available)
- Assemblies for coiled hose include reusable swivel fitting. Straight hose available with or without fittings
- Working temperature: -104° F to 175° F



## Single Air Hose Assemblies (Coiled)

| Model          | Description (O.D. x I.D. x Length) | Retracted Length | Working Pressure | Npt Fittings |
|----------------|------------------------------------|------------------|------------------|--------------|
| ASH-250C-10MSZ | 3/8" x 1/4" x 10'                  | 7"               | 100 psi          | 1/4"         |
| ASH-250C-15MSZ | 3/8" x 1/4" x 15'                  | 9-1/2"           | 100 psi          | 1/4"         |
| ASH-250C-25MSZ | 3/8" x 1/4" x 25'                  | 15-1/2"          | 100 psi          | 1/4"         |
| ASH-375C-15MSZ | 9/16" x 3/8" x 15'                 | 10"              | 100 psi          | 3/8"         |
| ASH-375C-25MSZ | 9/16" x 3/8" x 25'                 | 14"              | 100 psi          | 3/8"         |
| ASH-500C-15MSZ | 3/4" x 1/2" x 15'                  | 13"              | 100 psi          | 1/2"         |
| ASH-500C-25MSZ | 3/4" x 1/2" x 25'                  | 23"              | 100 psi          | 1/2"         |

Custom length coil assemblies and special colors available in minimum order quantities. contact an AIMCO Customer Service Associate, 1-503-254-6600, or toll free 1-800-852-1368.



### Straight Air Hose (Sold Per Foot)

| Model    | Description |
|----------|-------------|
| ASH-375Z | 3/8" I.D.   |
| ASH-500Z | 1/2" I.D.   |

Contact an AIMCO Customer Service Associate about full reel pricing, 1-503-254-6600, or toll free 1-800-852-1368.

## Rubber Hose



- Designed for use in a wide range of industrial, construction, and agricultural applications
- Constructed of high grade, reinforced EPDM synthetic rubber
- Working temperature: -40° F to 190° F

### Single Air Hose (Rubber)

| I.D.  | O.D.  | Length | Working Pressure | Weight |
|-------|-------|--------|------------------|--------|
| 3/16" | 0.44" | 10 ft  | 200 psi          | 0.8 lb |
| 1/4"  | 0.5"  | 10 ft  | 200 psi          | 0.9 lb |
| 5/16" | 0.58" | 10 ft  | 200 psi          | 1.2 lb |
| 3/8"  | 0.67" | 10 ft  | 200 psi          | 1.5 lb |
| 1/2"  | 0.81" | 10 ft  | 200 psi          | 2.0 lb |
| 5/8"  | 0.97" | 10 ft  | 200 psi          | 2.7 lb |
| 3/4"  | 1.12" | 10 ft  | 200 psi          | 3.4 lb |

Custom lengths available. Contact an AIMCO Customer Service Associate for more details, 1-503-254-6600, or toll free 1-800-852-1368.

### Helpful Hints For Air Hose Use

- Use recommended I.D. air hose and fittings
- Replace air hose regularly to help maintain clean air
- A clear hose allows you to see water or dirt accumulation in hose
- Use correct length of hose to reduce air loss and pressure drop
- Use locking quick-disconnect couplers for additional safety

# Air Line Accessories

## BRASS QUICK COUPLERS

Manual ball couplers designed for use with ergonomic twist plugs. Brass with nitrile seals, rated to 300 PSI, from -40° to +250° F.



| Model | Description                        |
|-------|------------------------------------|
| B23   | 1/4" NPT F x 1/4" QC Brass Coupler |
| B23E  | 1/4" NPT F x 3/8" QC Brass Coupler |
| B25   | 3/8" NPT F x 3/8" QC Brass Coupler |

## IN-LINE MINI REGULATORS

Easily adjust airflow with the turn of a dial.



| Model      | Capacity |
|------------|----------|
| 932-100-0  | 1/8" NPT |
| 932-110-0A | 1/4" NPT |

## MINI AIR GAUGE SWIVEL JOINT KITS

- Bi-directional 360° rotation
- Keeps air hose straight and untwisted
- Decreases operator fatigue



| Model  | Inlet    | Weight | Max Psi   | Tool CFM |
|--------|----------|--------|-----------|----------|
| 7021AG | 1/4" NPT | 3 oz   | Up to 125 | 25       |
| 7041AG | 3/8" NPT | 3 oz   | Up to 125 | 50       |



7021AG

## SWIVEL AIR FITTINGS

For use with most portable air tools, including grinders, drills, screwdrivers, buffers, sanders, staple guns, and more. Rotates 360° for awkward angles.



| Model | Inlet    | Weight | Max PSI   | Tool CFM |
|-------|----------|--------|-----------|----------|
| 7021  | 1/4" NPT | 3 oz   | Up to 125 | 25       |
| 7041A | 3/8" NPT | 11 oz  | Up to 125 | 50       |
| 7051  | 1/2" NPT | 7 oz   | Up to 125 | 60       |

## AIR LINE FITTINGS

| Model  | Capacity                |
|--------|-------------------------|
| 250-RZ | 1/4" NPT Rigid Fitting  |
| 250-SZ | 1/4" NPT Swivel Fitting |
| 375-RZ | 3/8" NPT Rigid Fitting  |
| 375-SZ | 3/8" NPT Swivel Fitting |
| 500-SZ | 1/2" NPT Swivel Fitting |



## BRASS ADAPTERS AND BUSHINGS

Pipe fittings for use as medium and low pressure connectors. Meets functional requirements of SAE J530, SAE J531, ASME and ASA. Rated 1,000 PSI from -65° to +250° F.

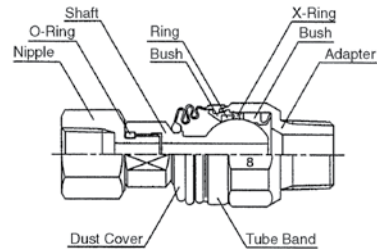


| Model     | Description                     |
|-----------|---------------------------------|
| 222P-6-4  | 3/8" NPT F x 1/4" NPT M Adapter |
| 222P-8-6  | 1/2" NPT F x 3/8" NPT M Adapter |
| 222P-12-8 | 3/4" NPT F x 1/2" NPT M Adapter |
| 209P-6-4  | 1/4" NPT F x 3/8" NPT M Bushing |
| 209P-8-6  | 3/8" NPT F x 1/2" NPT M Bushing |

## ERGONOMIC TWIST PLUGS

These unique, ergonomically designed hose fittings provide 360° rotation and 35° angled rotation in any direction.

- Two rotation points prevent kinking of air hose
- Design ensures full air pressure flow
- Rotating joint comes with polyurethane dust cover
- Heavy duty construction



| Model        | Description                     |
|--------------|---------------------------------|
| TS-30NP-2NPT | 3/8" NPT Female x 1/4" NPT Male |
| TS-20NP-2NPT | 1/4" NPT Female x 1/4" NPT Male |
| TS-20US-2NPT | 1/4" US Plug x 1/4" NPT Male    |
| TS-30US-3NPT | 3/8" US Plug x 3/8" NPT Male    |

# Index

| MODEL #             | PAGE | MODEL #            | PAGE | MODEL #          | PAGE | MODEL #  | PAGE | MODEL #            | PAGE |
|---------------------|------|--------------------|------|------------------|------|--|------|--------------------|------|
| <b>A</b>            |      |                    |      |                  |      |  |      |                    |      |
| AB-3                | 24   | ACA-P280-1500      | 9    | AFRL-4HTA        | 28   | AW3FMF   | 25   | RMA-20L            | 27   |
| AB-3/5              | 24   | ACA-P280-2000      | 9    | AFAS-400         | 6    | AW3FMS   | 25   | RPA-1              | 27   |
| AB-5                | 24   | ACA-P280-2500      | 9    | AFAT0-550        | 6    | AW3S   | 24   | RPA-2              | 27   |
| ABMJ 1200-600       | 7    | ACA-P2150-1500     | 9    | AFAT5-400        | 6    | AW6F   | 24   | RPA-3              | 27   |
| ABMJ 1200-1000      | 7    | ACA-P2150-2000     | 9    | AFRL-2           | 28   | AW6FMF   | 25   | <b>S</b>           |      |
| ABMJ 2000-1000      | 7    | ACA-P2150-2500     | 9    | AFRL-2-C         | 28   | AW6FMS   | 25   | SH-5               | 24   |
| ABT-3               | 24   | ACA-P2220-1500     | 9    | AFRL-3           | 28   | AW6S   | 24   | <b>T</b>           |      |
| ABT-5               | 24   | ACA-P2220-2000     | 9    | AFRL-3-C         | 28   | <b>B</b>   |      |                    |      |
| ABT5-R              | 24   | ACA-P2220-2500     | 9    | AFRL-8           | 28   | B23  | 30   | TA-50-2            | 25   |
| ACA10-1000          | 8    | ACA-V15-1000       | 8    | AFB-3            | 24   | B23E   | 30   | TS-20NP-2NPT       | 30   |
| ACA10-1500          | 8    | ACA-V15-1500       | 8    | AFB-5            | 24   | B25  | 30   | TS-20US-2NPT       | 30   |
| ACA15-1000          | 8    | ACA-V15-2000       | 8    | AIC3-2           | 24   | BA Series 3arm                                     | 19   | TS-30NP-2NPT       | 30   |
| ACA15-1500          | 8    | ACA-V40-1000       | 8    | AIC5-2           | 24   | BB Series 3arm                                     | 19   | TS-30US-3NPT       | 30   |
| ACA15-2000          | 8    | ACA-V40-1500       | 8    | AJH-3            | 24   | BE Series 3arm                                     | 19   | TW-00              | 26   |
| ACA40-1000          | 8    | ACA-V40-2000       | 8    | AJH-5            | 24   | BPRASC Series 3arm                                 | 21   | TW-0               | 26   |
| ACA40-1500          | 8    | ACA-V40-2500       | 8    | AJS3             | 24   | BPRASM Series 3arm                                 | 21   | TW-3               | 26   |
| ACA40-2000          | 8    | ACA-V80-1500       | 8    | ALA5-200         | 6    | <b>D</b>   |      |                    |      |
| ACA40-2500          | 8    | ACA-V80-2000       | 8    | ALA10-400        | 6    | DM Series 3arm                                     | 21   | TW-5               | 26   |
| ACA80-1500          | 8    | ACA-V80-2500       | 8    | ALA15-200        | 6    | DS Series 3arm                                     | 21   | TW-9               | 26   |
| ACA80-2000          | 8    | ACA-V150-1500      | 8    | ALA40-300        | 6    | <b>F</b>   |      |                    |      |
| ACA80-2500          | 8    | ACA-V150-2000      | 8    | ALA200-400       | 6    | F70  | 14   | TW-15              | 26   |
| ACA150-1500         | 8    | ACA-V150-2500      | 8    | ALA400-400       | 6    | F600   | 14   | TW-22              | 26   |
| ACA150-2000         | 8    | ACA-V220-1500      | 8    | ALBM Series 3arm | 20   | F1500  | 14   | TW-30              | 26   |
| ACA150-2500         | 8    | ACA-V220-2000      | 8    | ALBS Series 3arm | 20   | F3000  | 14   | TW-40              | 26   |
| ACA220-1500         | 8    | ACA-V220-2500      | 8    | AMP-5            | 24   | F7500  | 14   | TW-50              | 26   |
| ACA220-2000         | 8    | ACPTT-V15-510 150  | 12   | ASB-0C           | 26   | FA-50-2  | 25   | TW-60              | 26   |
| ACA220-2500         | 8    | ACPTT-V15-710 300  | 12   | ASB-3C           | 26   | <b>G</b>   |      |                    |      |
| ACAH-15             | 10   | ACPTT-V40-510 150  | 12   | ASB-5C           | 26   | Gen IV Smart Arm System with Process Visualization | 16   | TW-70              | 26   |
| ACAH-15-MPE2745     | 10   | ACPTT-V40-760 300  | 12   | ASBM Series 3arm | 20   | <b>W</b>   |      |                    |      |
| ACAH-40-80          | 10   | ACPTT-V40-1410 600 | 12   | ASBS Series 3arm | 20   | WSCH   | 24   | <b>Numbers</b>     |      |
| ACAH-40PS1000       | 10   | ACPTT-V80-810 300  | 12   | ASC-3            | 24   | 1AM1DS Series 3arm                                 | 19   | 15N1DS Series 3arm | 19   |
| ACAH-80PS3-5000     | 10   | ACPTT-V80-1410 600 | 12   | ASC-5            | 24   | 209P-6-4   | 30   | 209P-8-6           | 30   |
| ACAH-150-220        | 10   | ACSA-600-1500      | 12   | ASH-250C-10MSZ   | 29   | 209P-8-6   | 30   | 222P-6-4           | 30   |
| ACAH-150PS3-5000    | 10   | ACSA-800-1500      | 12   | ASH-250C-15MSZ   | 29   | 222P-8-6   | 30   | 222P-8-6           | 30   |
| ACAH-4080-MPE2745   | 10   | ACSA-1000-1500     | 12   | ASH-250C-25MSZ   | 29   | 222P-12-8  | 30   | 250-RZ             | 30   |
| ACAH-150220-MPE4070 | 10   | ACTT-V15-600 150   | 11   | ASH-375C-15MSZ   | 29   | 250-SZ   | 30   | 21226              | 25   |
| ACAH-S154080        | 10   | ACTT-V15-800 300   | 11   | ASH-375C-25MSZ   | 29   | 28178  | 28   | 28796              | 29   |
| ACAH-SL15150        | 10   | ACTT-V40-600 150   | 11   | ASH-375Z         | 29   | 375-RZ   | 30   | 375-SZ             | 30   |
| ACAHTT-15A-3060     | 12   | ACTT-V40-850 300   | 11   | ASH-500C-15MSZ   | 29   | 500-SZ   | 30   | 7021               | 30   |
| ACAHTT-15S-2745     | 12   | ACTT-V40-1500 600  | 11   | ASH-500C-25MSZ   | 29   | 7021AG   | 30   | 7041A              | 30   |
| ACAHTT-40S-2745     | 12   | ACTT-V80-900 300   | 11   | ASH-500Z         | 29   | 7041AG   | 30   | 7051               | 30   |
| ACAHTT-4080A-3165   | 12   | ACTT-V80-1500 600  | 11   | AT3-3            | 24   | 932-100-0  | 30   | 932-110-0A         | 30   |
| ACA-P2BK-4          | 9    | ACTT-V80-2100 900  | 11   | AT3-4            | 24   | <b>L</b>   |      |                    |      |
| ACA-P2BK-6          | 9    | AD-D1098-P         | 5    | AT3-6            | 24   | LR-09B-90  | 27   | <b>P</b>           |      |
| ACA-P2BK-8          | 9    | AD-D1098-PAC       | 5    | AT3-9            | 24   | LR-09B-200   | 27   | PEBM Series 3arm   | 20   |
| ACA-P2BK-10         | 9    | AD-D1098-PACE      | 5    | AT5-3            | 24   | <b>R</b>   |      |                    |      |
| ACA-P2BK-14         | 9    | AD-D1098-S         | 5    | AT5-4            | 24   | RMA-7L   | 27   | PEBS Series 3arm   | 20   |
| ACA-P215-1000       | 9    | AD-D1098-SAC       | 5    | AT5-6            | 24   | RMA-15L  | 27   | PLBM Series 3arm   | 20   |
| ACA-P215-1500       | 9    | ADM Series 3arm    | 21   | AT5-9            | 24   | <b>L</b>   |      |                    |      |
| ACA-P215-2000       | 9    | ADS Series 3arm    | 21   | AT5-12           | 24   | PSBM Series 3arm                                   | 20   | PLBS Series 3arm   | 20   |
| ACA-P240-1000       | 9    | AEC5-2             | 24   | ATN-3            | 24   | <b>R</b>   |      |                    |      |
| ACA-P240-1500       | 9    | AEP-3              | 24   | ATN-5            | 24   | RMA-7L   | 27   | PSBS Series 3arm   | 20   |
| ACA-P240-2000       | 9    | AEP-5              | 24   | ATW-50           | 25   | <b>R</b>   |      |                    |      |
| ACA-P240-2500       | 9    | AES-3              | 24   | AUB-5            | 24   | RMA-7L   | 27   | <b>R</b>           |      |
|                     |      | AES-5              | 24   | AVC-5            | 24   | RMA-15L  | 27   | <b>R</b>           |      |
|                     |      | AFRL-4             | 28   | AW3F             | 24   | <b>R</b>   |      |                    |      |



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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